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SERVICE MANUAL SV-DVD3E/SV-DVD6E

SAMSUNG

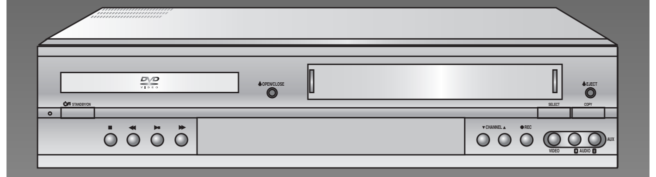
DVD-VCR COMBINATION

SV-DVD3E
SV-DVD6E

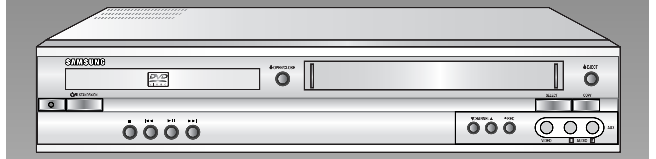
SERVICE Manual

For mechanical disassembly and adjustment, refer to the "Mechanical Manual" (TS-10A ➞ AC82-00023A).

DVD-VCR COMBINATION



SV-DVD3E



SV-DVD6E

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1. Precautions

1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.

2. When reinstalling the chassis and its assemblies, be sure to restore all pretective devices, including : control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people--particularly children --might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

   If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (See Fig. 1-1) :
   Warning : Do not use an isolation transformer during this test. Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

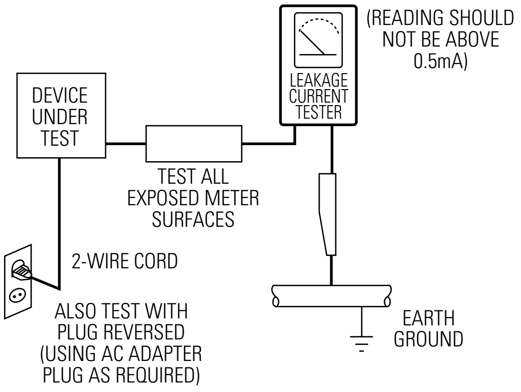

(READING SHOULD NOT BE ABOVE 0.5mA)
LEAKAGE CURRENT TESTER
DEVICE UNDER TEST
TEST ALL EXPOSED METER SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

Fig. 1-1 AC Leakage Test

5. With the unit completely reassembled, plug the AC line cord directly the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known erath ground (metal water pipe, conduit, etc.) and all exposed metal parts, including : antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

6. Antenna Cold Check :
   With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong.
   Connect the other lead to the coaxial connector.

7. Some semiconductor ("solid state") devices are easily damaged by static electricity.
   Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors.
   The following techniques will reduce the occurrence of component damage caused by static electricity.

8. Immediately before handling sny semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging Wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)

9. Design Alteration Warning :
   Never alter or add to the mechanical or electrical design of this unit. Example : Do not add auxiliary audio or video connectors.
   Such alterations might create a safety hazard.
   Also, any design changes or additions will void the manufacturer's warranty.

10. Never defeat any of the B+ voltage interlocks.
    Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

11. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

12. Observe the original lead dress, especially near the following areas : Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.

13. Product Safety Notice :
    Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

    Components that are critical for safety are indicated in the circuit diagram by shading, (⚠ or ⚠).
    Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

1-2 Handling the optical pick-up

The laser diode in the optical pick up may suffer electrostatic breakdown because of potential static electricity from clothing and your body.

The following method is recommended.

(1) Place a conductive sheet on the work bench (The black sheet used for wrapping repair parts.)

(2) Place the set on the conductive sheet so that the chassis is grounded to the sheet.

(3) Place your hands on the conductive sheet(This gives them the same ground as the sheet.)

(4) Remove the optical pick up block

(5) Perform work on top of the conductive sheet. Be careful not to let your clothes or any other static sources to touch the unit.

- ◆ Be sure to put on a wrist strap grounded to the sheet.
- ◆ Be sure to lay a conductive sheet made of copper etc. Which is grounded to the table.

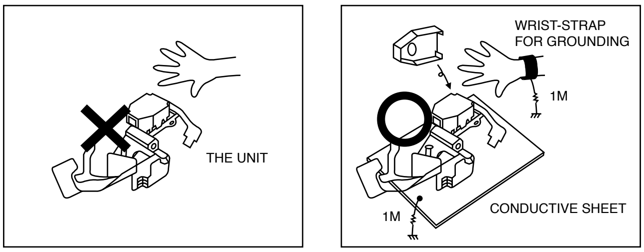


Fig.1-2

(6) Short the short terminal on the PCB, which is inside the Pick-Up ASS'Y, before replacing the Pick-Up. (The short terminal is shorted when the Pick-Up Ass'y is being lifted or moved.)

(7) After replacing the Pick-up, open the short terminal on the PCB.

1-3 Pick-up disassembly and reassembly

1-3-1 Disassembly

1) Remove the power cord.
2) Disassemble the Deck-Assy.
3) Make solder land 2 points short on Pick-up.
   (See Fig. 1-3)
4) Disassembly the Pick-up.

1-3-2 Assembly

1) Replace the Pick-up.
2) Remove the soldering 2 points on Pick-up.
3) Reassemble the Deck-Assy.

Note : If the assembly and disassembly are not done in correct sequence, the Pick-up may be damaged.

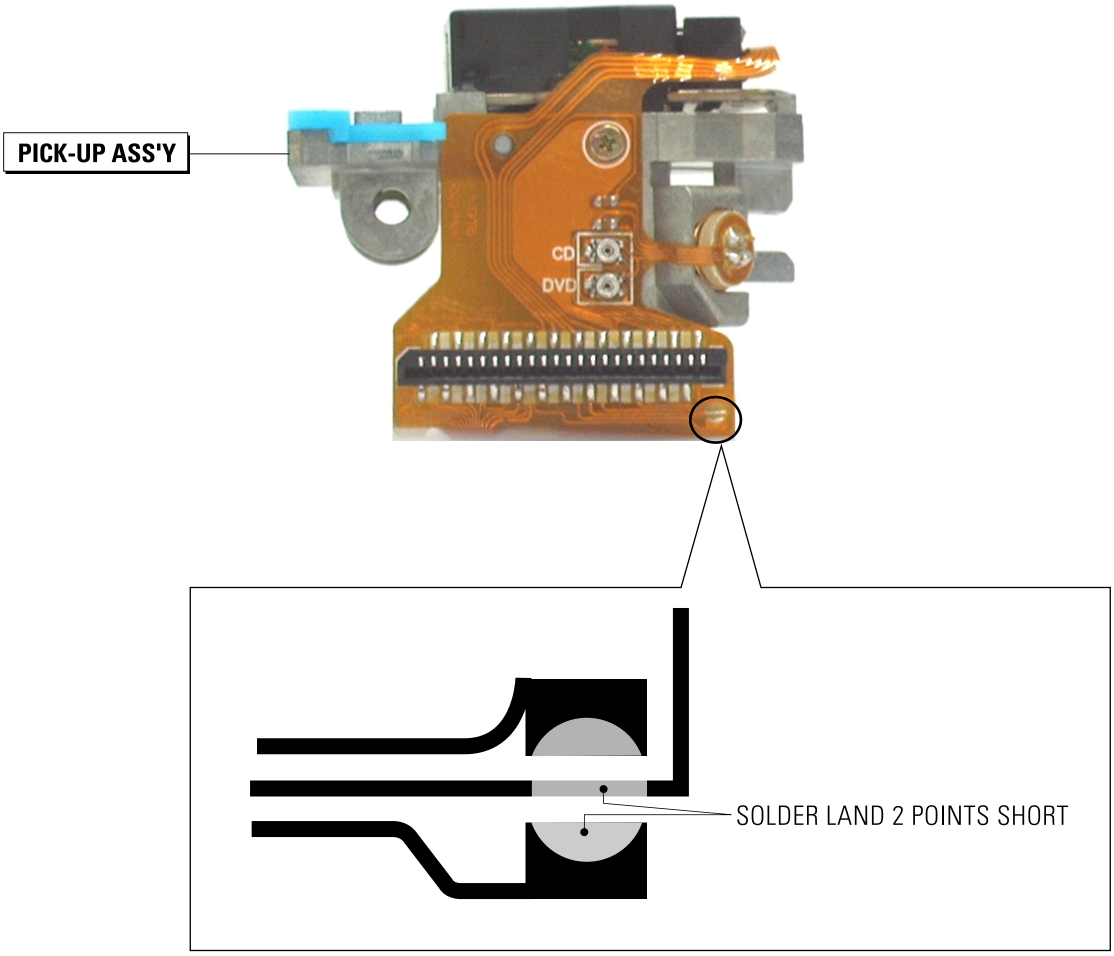


Fig. 1-3

2. Product Specifications

GENERAL	Power Requirements	AC 220-240V, 50/60Hz (AC110-240V : CIS Model)
	Power Consumption	25Watts
	Weight	4.3kg
	Dimensions	W 430mm x D 330mm x H 100mm
	Operating ambirnt Temperature	+5°C ~ +35°C
	Installation conditions	Operation position : Horizontal,
		Ralative humidity : Below 75%
INPUT	Video input (Rear)	RCA jack : 1.0Vp-p (unbalanced) 75Ω
	Audio input (Rear)	RCA jack : -8dBm, 47Kohm unbalanced
OUTPUT	RF out	UHF 21-69 (Initial CH36)
	Audio (DVD, VCR)	RCA jack, Euro Scart socket
	Audio (DVD only)	Digital audio out (OPTICAL, COAXIAL)
	Video (DVD, VCR)	RCA jack, Euro Scart socket
	Video (DVD only)	S-Video out
		RGB out : Euro Scart socket
VCR	Tape format	VHS type video tape,
		S-VHS type video tape (Playback only)
	Color system	PAL, MESECAM, NTSC4.43, NTSC playback on PAL TV, SECAM(OPTION)
	Tuning system	B/G, D/K, I(U.K), L(FRANCE)
	Video S/N	Above 43dB (standard recording)
	Resolution	Above 240 lines (standard recording)
	Audio S/N	Above 68dB (Hi-Fi), 39dB (Mono)
	Audio frequency characteristics	20Hz - 20KHz (Hi-Fi)
DVD	Disc	DVD, CD (12cm), CD (8cm), VIDEO-CD (12cm), MP3, CD-R(RW)
	Audio S/N	115dB
	Audio dynamic range	105dB

MEMO

3. Disassembly and Reassembly

3-1 Cabinet and PCB

3-1-1 Cabinet Top Removal

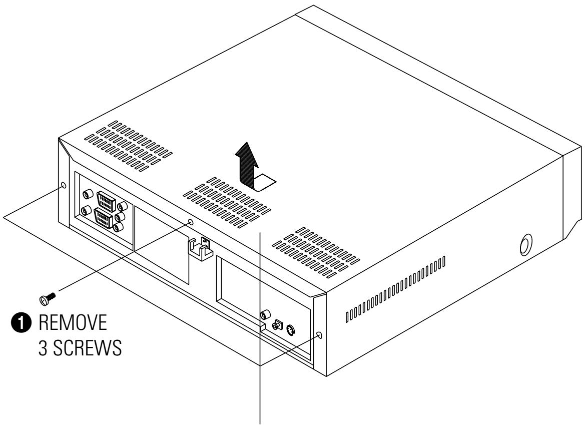

❶ REMOVE
3 SCREWS
Lift up the Cabinet Top in the direction of arrow.

Fig. 3-1 Cabinet Top Removal

3-1-2 Bottom Cover Removal

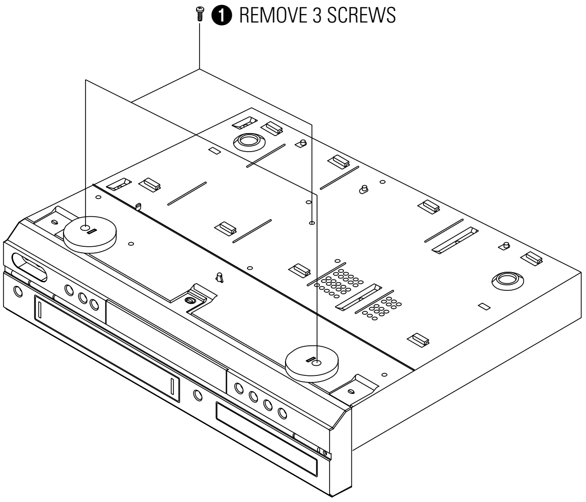

❶ REMOVE 3 SCREWS

Fig. 3-2 Bottom Cover Removal

3-1-3 Ass'y Front Panel Removal

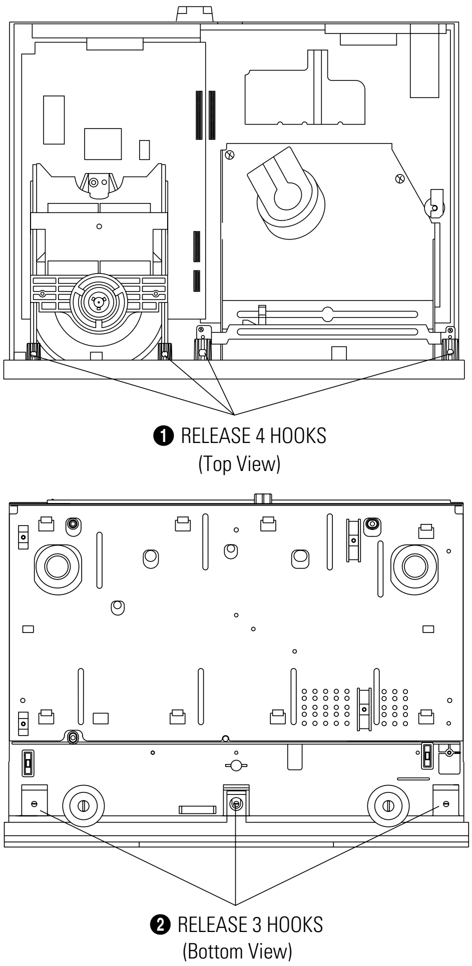

❶ RELEASE 4 HOOKS
(Top View)
❷ RELEASE 3 HOOKS
(Bottom View)

Fig. 3-3 Ass'y Front Panel Removal

3-1-4 Function-Timer PCB Removal

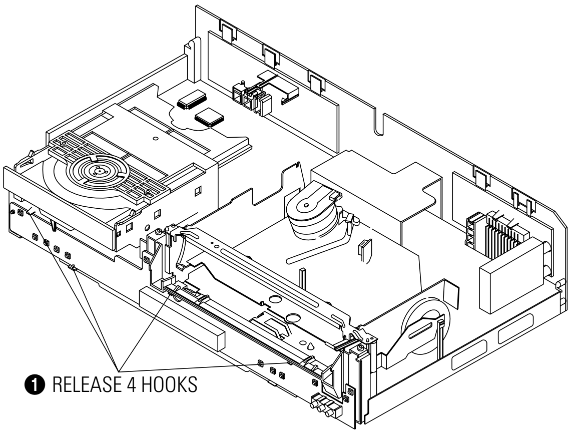

❶ RELEASE 4 HOOKS

Fig. 3-4 Function-Timer PCB Removal

3-1-5 Chassis Removal

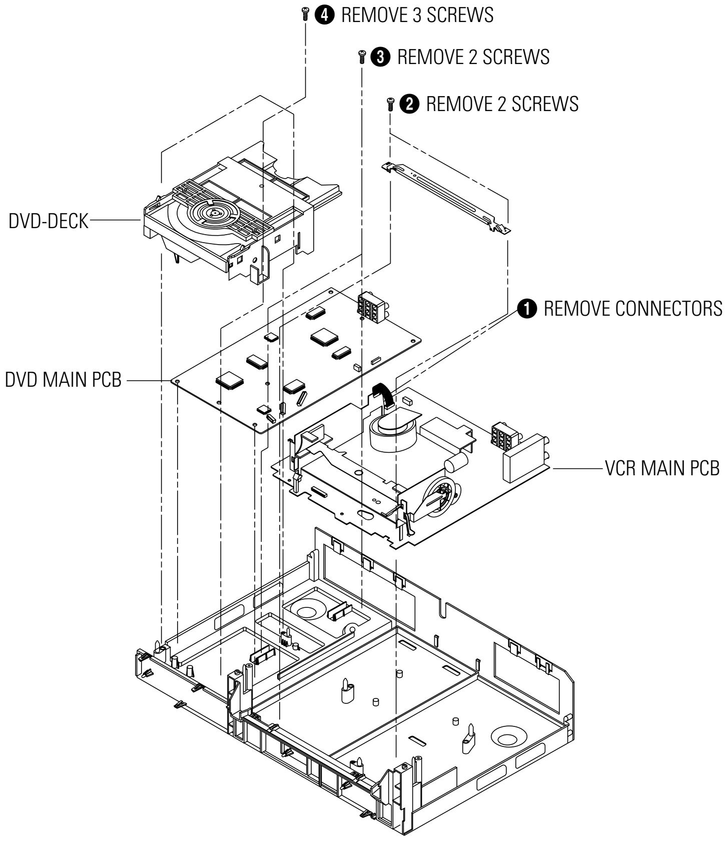
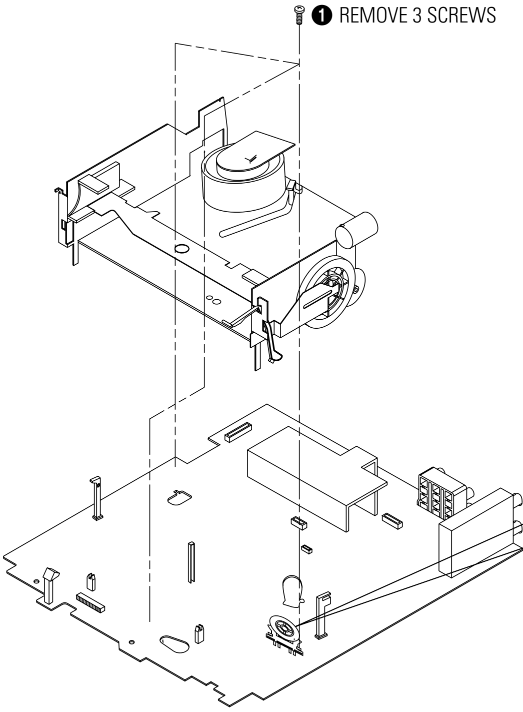

❹ REMOVE 3 SCREWS
❸ REMOVE 2 SCREWS
❷ REMOVE 2 SCREWS
DVD-DECK
❶ REMOVE CONNECTORS
DVD MAIN PCB
VCR MAIN PCB

Fig. 3-5 Chassis Removal

3-1-6 VCR Main PCB Removal


❶ REMOVE 3 SCREWS

When installing the ass'y full deck on the Main PCB, be sure to align the assembly point of mode switch.

MODE SWITCH

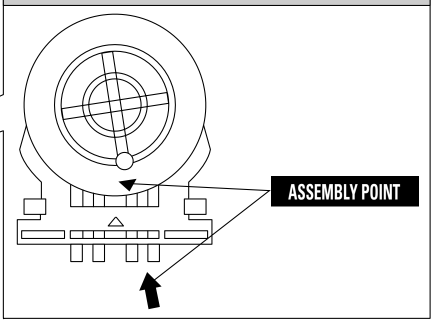

ASSEMBLY POINT

Fig. 3-6 VCR Main PCB Removal

3-2 Circuit Board Locations

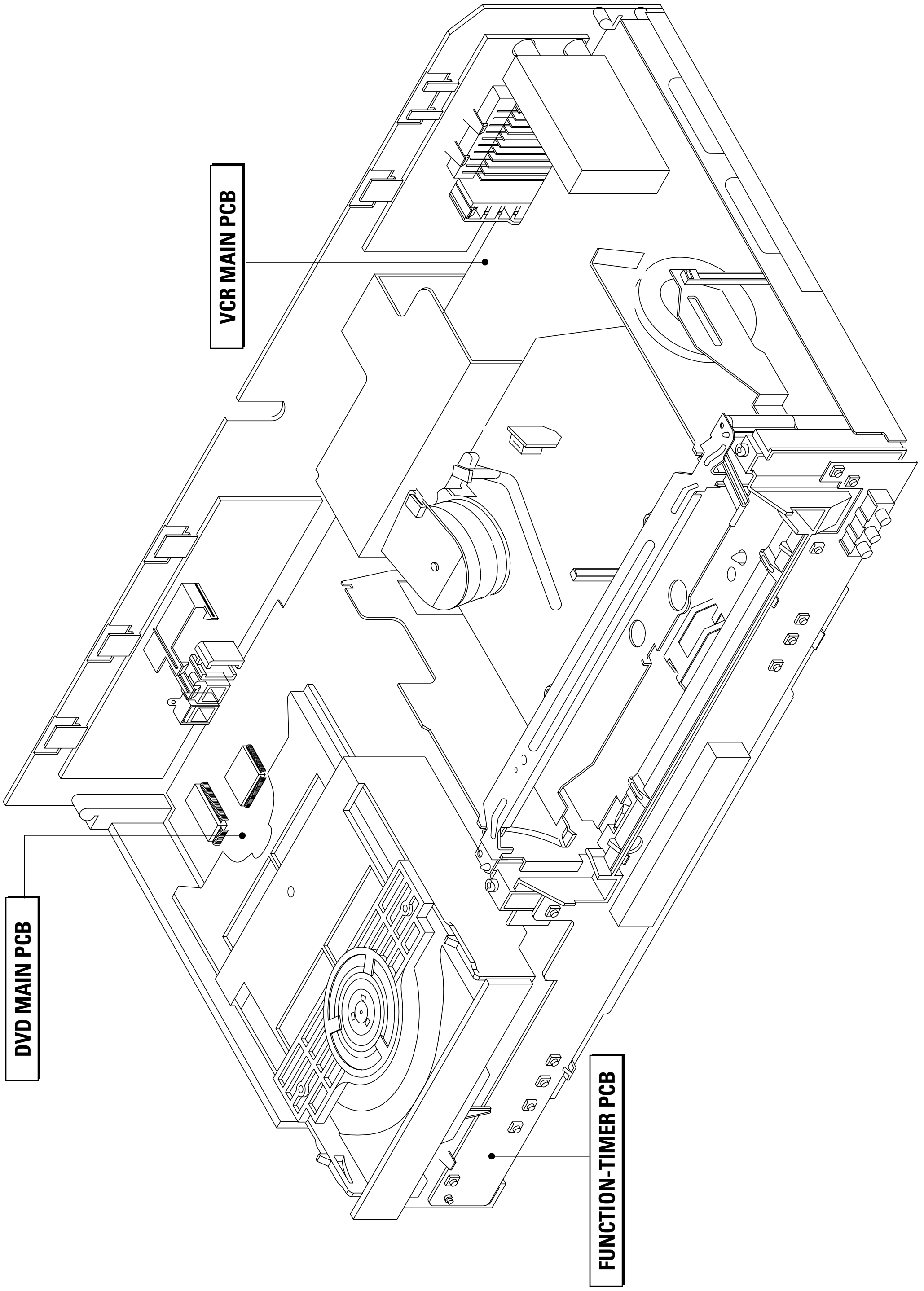

VCR MAIN PCB
DVD MAIN PCB
FUNCTION-TIMER PCB

Fig. 3-7 Circuit Board Locations

3-3 DVD Deck

3-3-1 Tray Disc Removal

1) Insert a Screw Driver ❶ into Emergency Hole ❷ and push the Slider Housing ❸ in the direction arrow “A”.
2) When the Tray Disc ❹ comes out a little, pull it in the direction arrow “B” by hand.
3) Pull the Tray Disc ❹ to disassemble , while simultaneously pushing 2 Stoppers ❺ (left, right) in the direction arrow “C”, “D”.

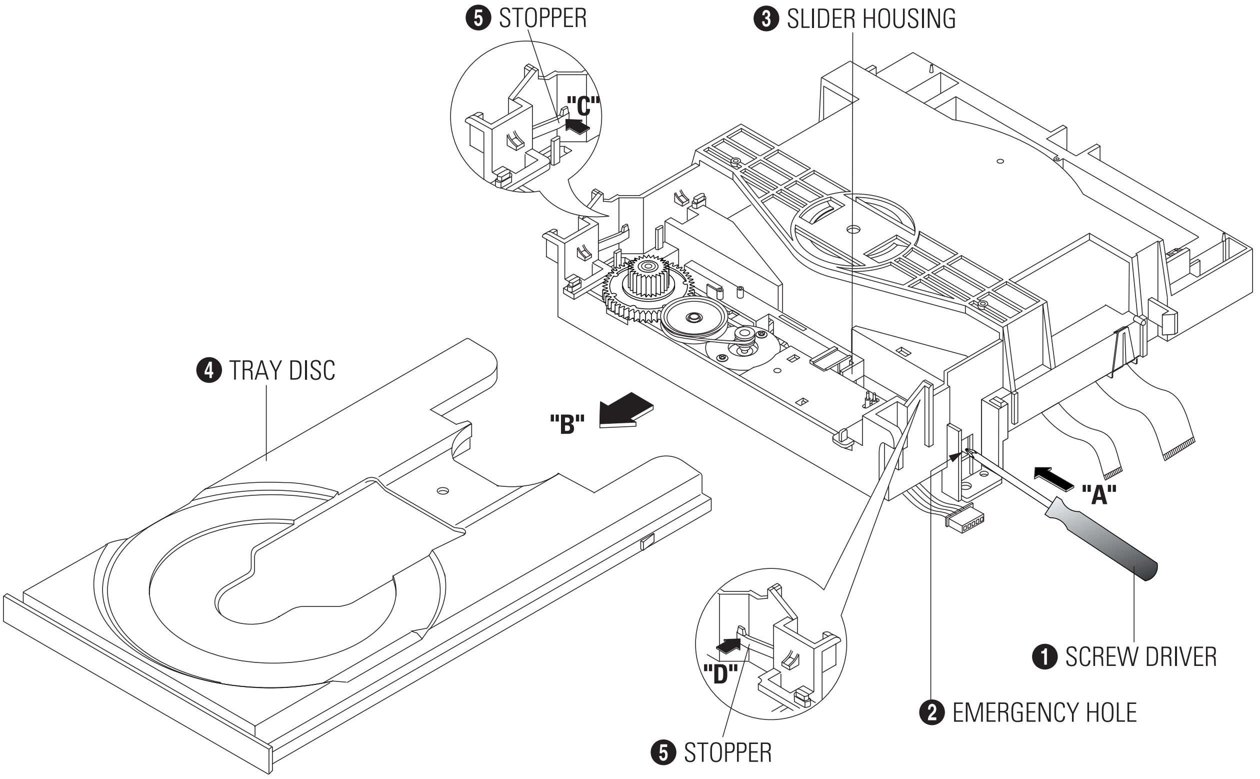

❺ STOPPER
❸ SLIDER HOUSING
"C"
❹ TRAY DISC
"B"
"A"
❶ SCREW DRIVER
"D"
❷ EMERGENCY HOLE
❺ STOPPER

Fig. 3-8 Tray Disc Removal

3-3-2 Assy P/U Deck Removal

1) Disconnect DCN2 ❶, DCN3 ❷.
2) Lift down the Ass'y P/U Deck ❸ while simultaneously pushing 2 Hooks ❹, ❺ in the direction of arrow "A", "B".

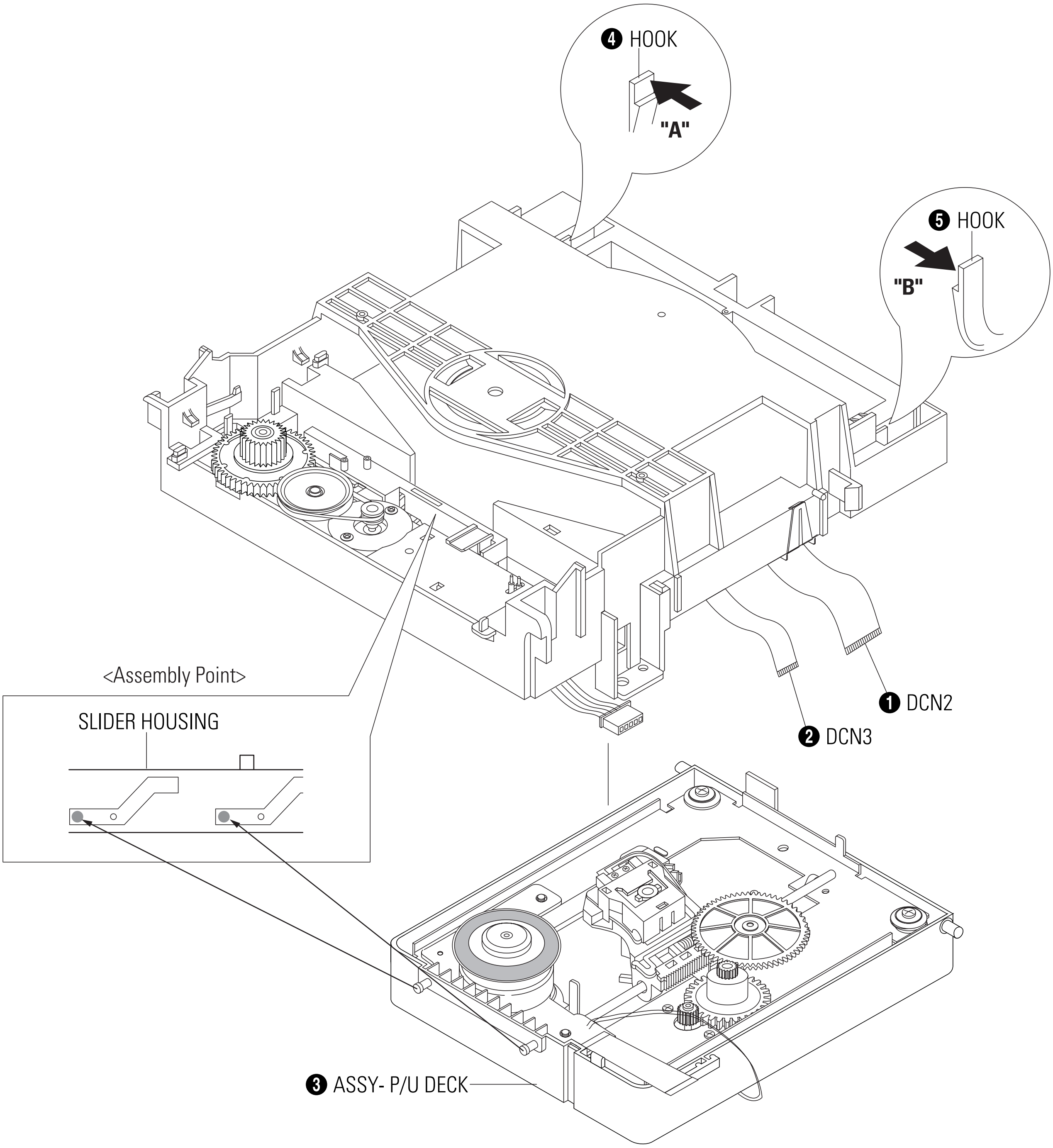

❹ HOOK
"A"
❺ HOOK
"B"
<Assembly Point>
SLIDER HOUSING
❶ DCN2
❷ DCN3
❸ ASSY- P/U DECK

Fig. 3-9 Assy P/U Deck Removal

3-3-3 Housing Ass’y Removal

1) Remove Belt ❶.
2) Push the Hook ❷ in the direction arrow “A” and lift up Pulley Gear ❸.
3) Push the Slider Housing ❺ in the direction arrow “B” and lift up the Gear Tray ❹.
4) Lift up the Slider Housing ❺.
5) Remove the soldering ❻ of 2 points (Red, Black).
6) Remove 2 Screws ❼ and lift down the Motor Load Ass’y ❽.
7) Push the 3 Hooks ❾ bottom side in the direction arrow “C” and lift up the Housing PCB ❿.
8) Push the Hooks ⓫ and remove Deck PCB ⓬.

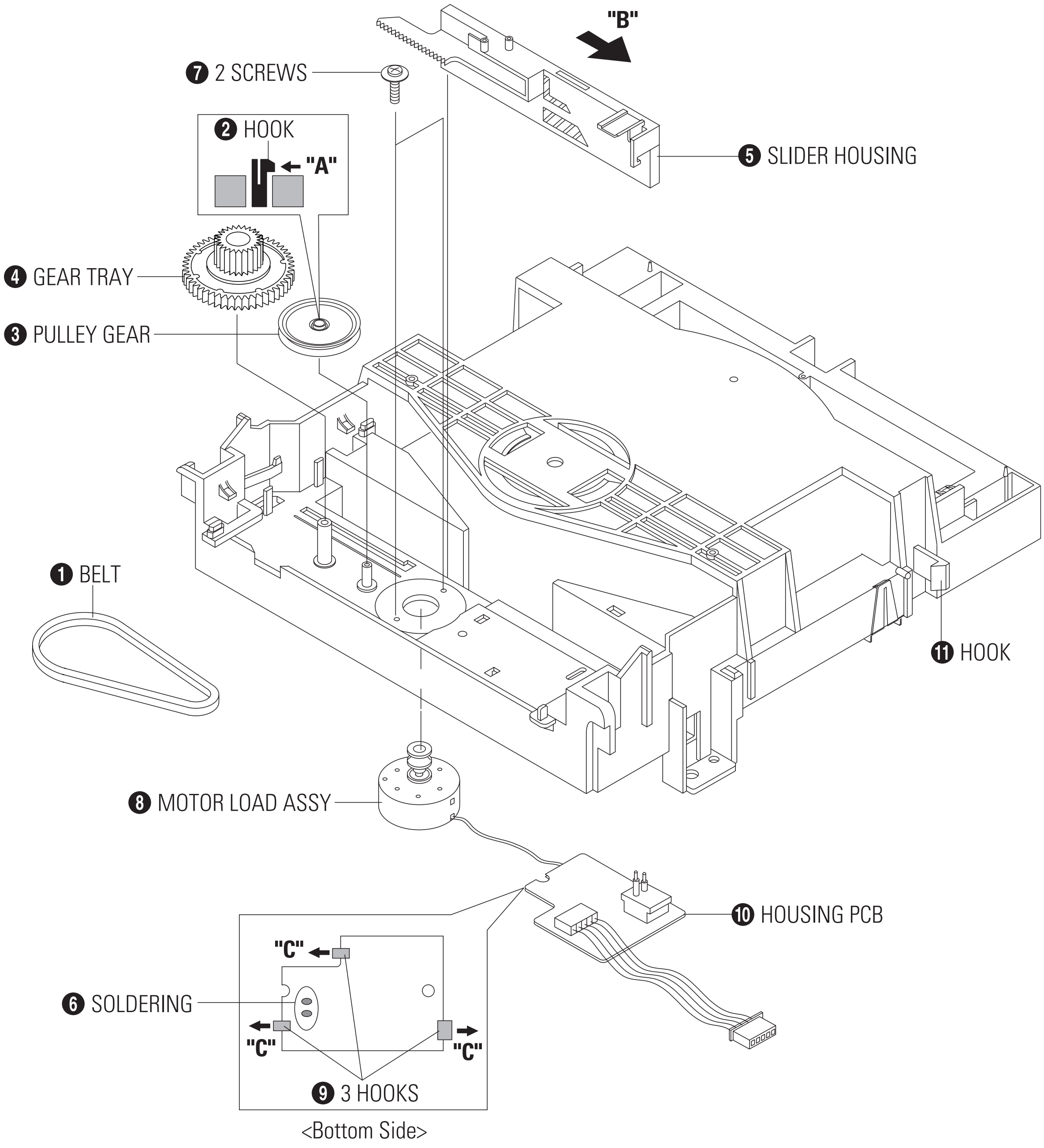

"B"
❼ 2 SCREWS
❷ HOOK
"A"
❺ SLIDER HOUSING
❹ GEAR TRAY
❸ PULLEY GEAR
❶ BELT
⓫ HOOK
❽ MOTOR LOAD ASSY
❿ HOUSING PCB
"C"
❻ SOLDERING
"C"
"C"
❾ 3 HOOKS
<Bottom Side>

Fig. 3-10 Housing Ass’y Removal

3-3-4 Sub Chassis Removal

1) Remove the Soldering of Motor Feed (+, - wire) ❶.
2) Remove the 4 Screws ❷.
3) Lift up the Ass'y Brkt Deck ❸.

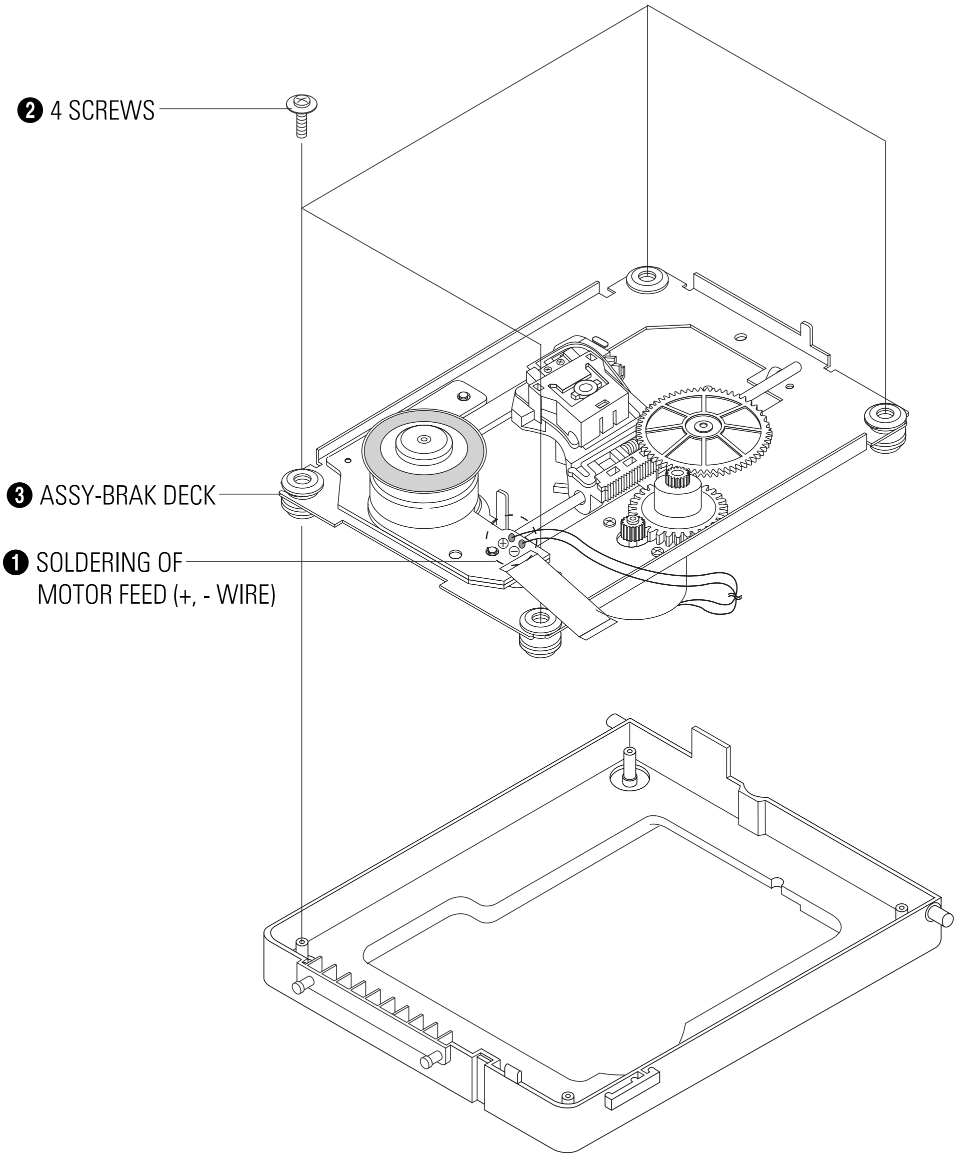

❷ 4 SCREWS
❸ ASSY-BRAK DECK
❶ SOLDERING OF MOTOR FEED (+, - WIRE)

Fig. 3-11 Sub Chassis Removal

3-3-5 Ass’y Brkt Deck Removal

1) Remove Washer ❶.
2) Remove Gear Feed B ❷ , Gear Feed A ❸.
3) Remove 2 Screws ❹.
4) Remove Shaft Pick-Up ❺ and Pick-Up Ass’y ❻.
5) Remove 1 Screw ❼.
6) Remove 2 Screws ❽.
7) Remove 3 Spring Spindle ❾ and Motor Spindle Ass’y ❿.

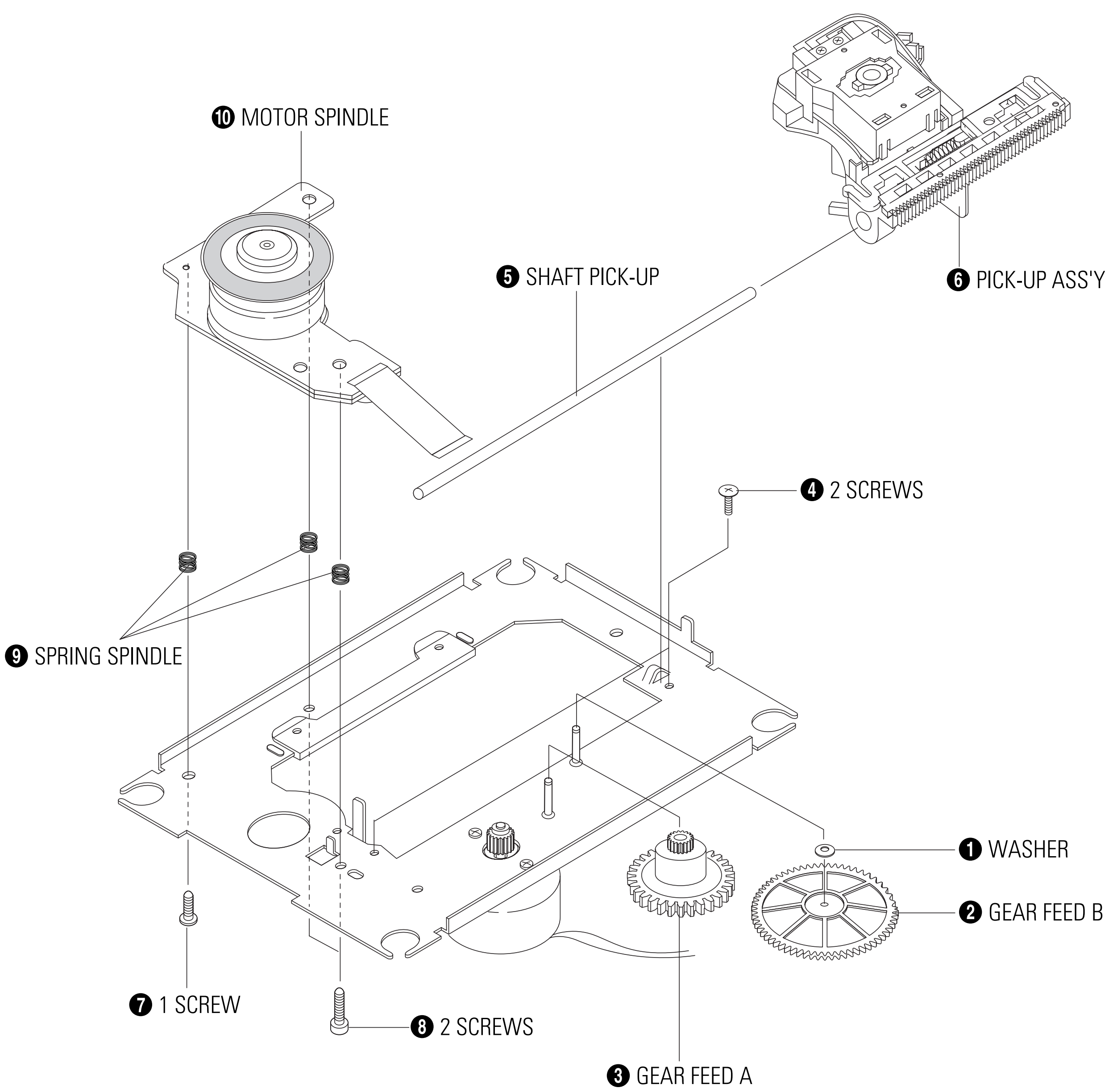

❿ MOTOR SPINDLE
❺ SHAFT PICK-UP
❻ PICK-UP ASS'Y
❹ 2 SCREWS
❾ SPRING SPINDLE
❶ WASHER
❷ GEAR FEED B
❼ 1 SCREW
❽ 2 SCREWS
❸ GEAR FEED A

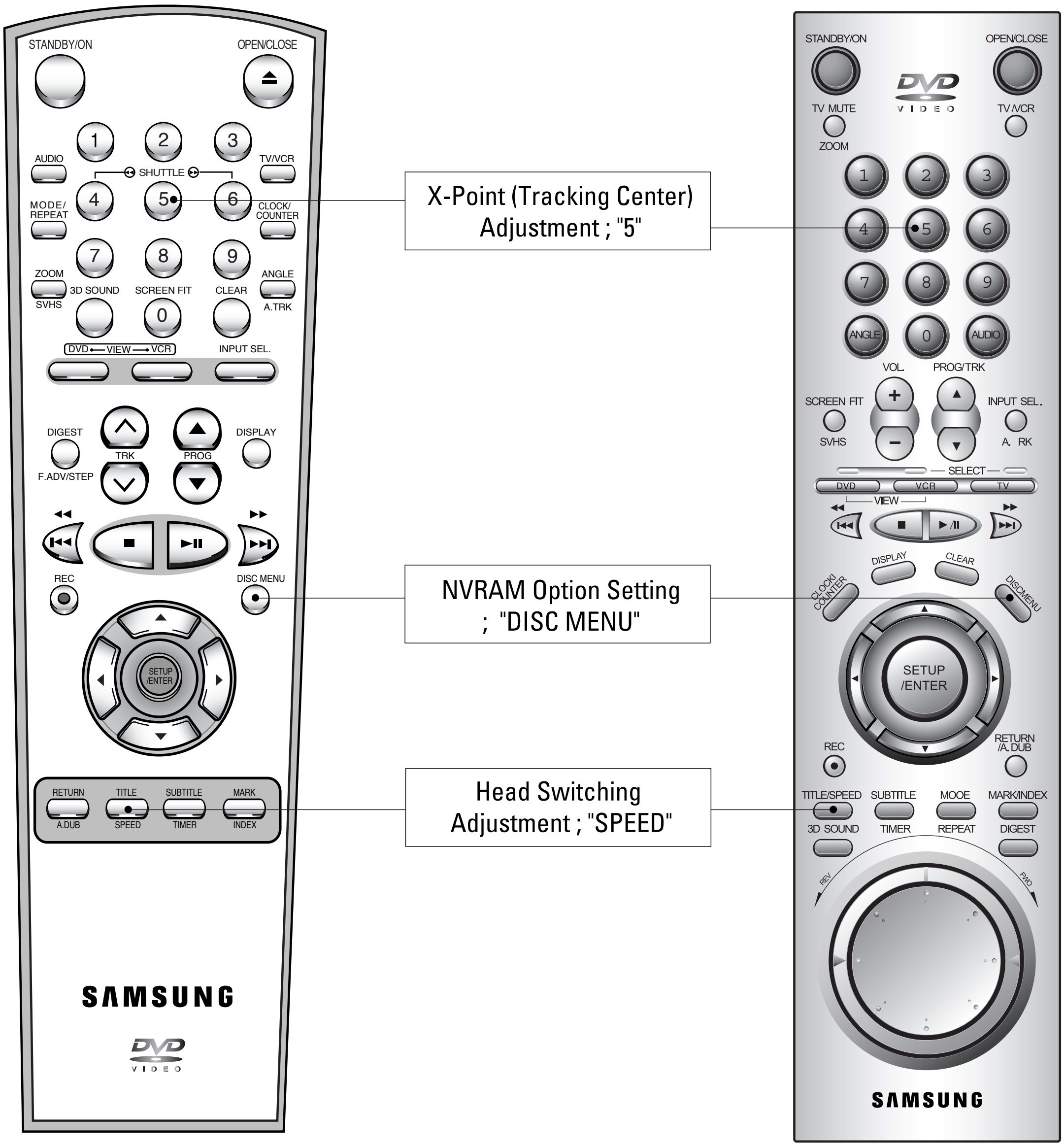
Fig. 3-12 Ass’y Brkt Deck Removal

4. VCR Alignment and Adjustments

4-1 Reference

1) X-Point (Tracking center) adjustment, “Head switching adjustment” and “NVRAM option setting” can be adjusted with remote control.
2) When replacing the VCR Main PCB Micom (IC601) and NVRAM (IC605 ; EEPROM) be sure to adjust the “Head switching adjustment” and “NVRAM option setting”.
3) When replacing the cylinder ass’y, be sure to adjust the “X-Point” and “Head switching adjustment”.
4) How to adjustment.
   - Press the “SW709 (TEST)” button on Function-Timer PCB to set the adjustment mode.
   - If the corresponding adjustment button is pressed, the adjustment is performed automatically.

4-1-1 Location of adjustment button of remote control



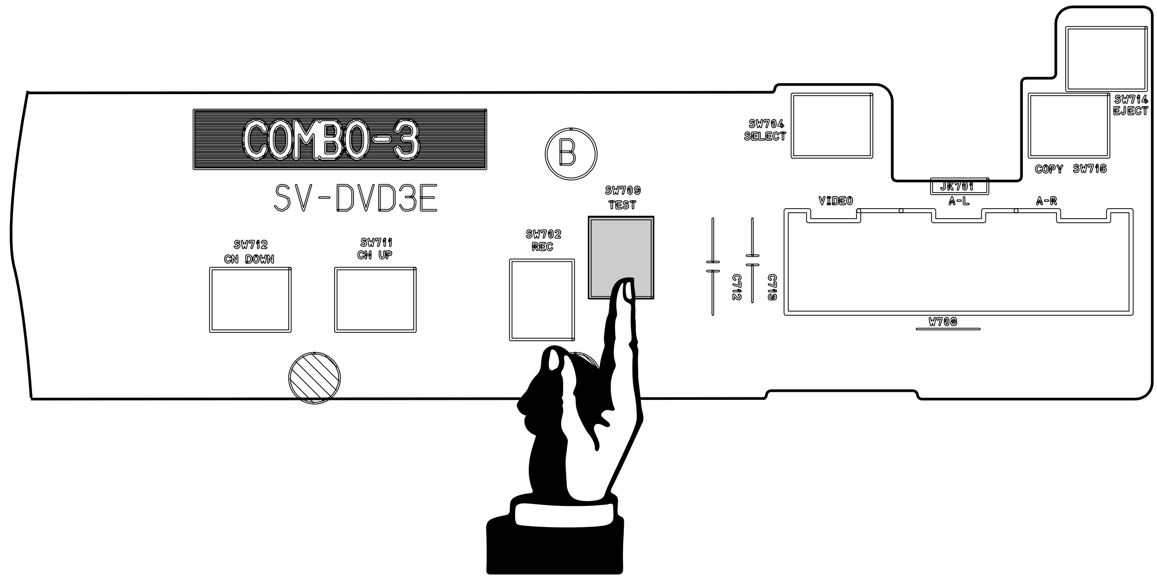
X-Point (Tracking Center) Adjustment ; "5"
NVRAM Option Setting ; "DISC MENU"
Head Switching Adjustment ; "SPEED"
STANDBY/ON
OPEN/CLOSE
SHUTTLE
DISC MENU
SETUP /ENTER
TITLE SPEED
TITLE/SPEED
SAMSUNG

SV-DVD3E

SV-DVD6E

Fig. 4-1

4-1-2 TEST location for adjustment mode setting


COMBO-3
SV-DVD3E
B
SW712
CN DOWN
SW711
CH UP
SW702
REC
SW709
TEST
C712
C713
SW704
SELECT
JK701
VIDEO
A-L
A-R
W708
SW714
EJECT
COPY SW716

TEST (SW709) BUTTON

Fig. 4-2 Function-Timer PCB (Top View)

4-2 Mechanical Adjustment

Note : Refer to the Mechanical Manual “TS-10A (AC82-00023A)” for the adjustment and confirmation of ass’y full deck.

4-2-1 The number and position of test point

Test point :	TP2 (Audio Output) TP3 (Envelope) TP4 (H’D S/W -Trigger) TP5 (Control Pulse)

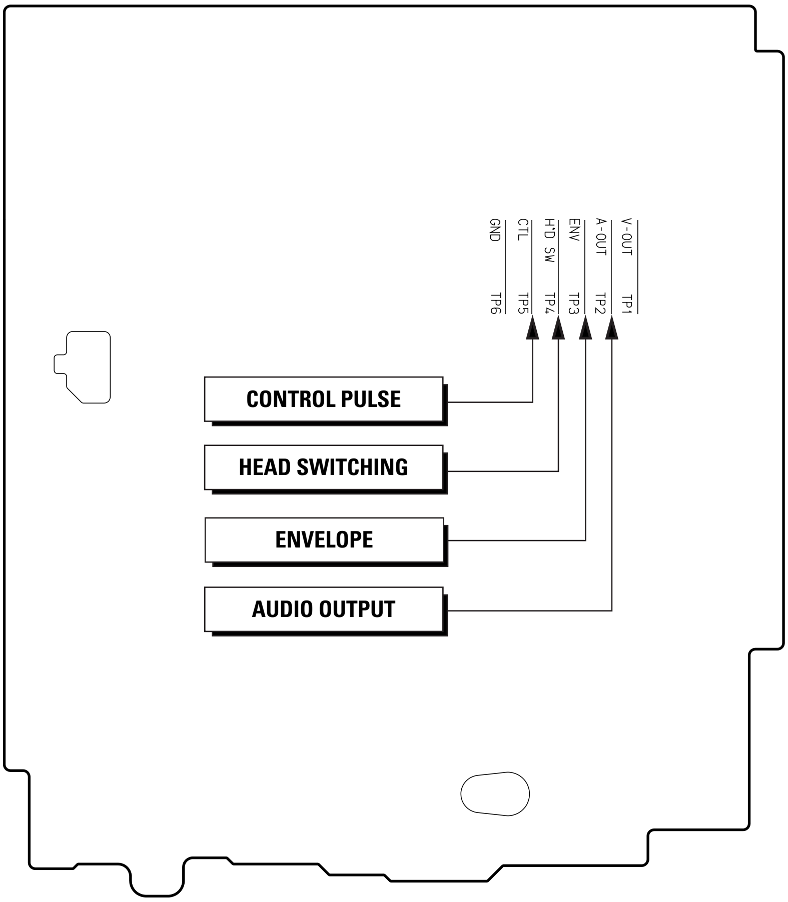


Fig. 4-3 Location of Test point (VCR Main PCB-Top View)

4-2-2 ACE Head position (X-Point) Adjustment

(See the 4-2-1(d) ACE Head Position (X-Point) Adjustment on page 4-2 of the Mechanical Manual)

1) Playback the alignment tape (Color bar).
2) Press the “SW709 (TEST)” button on F/Timer PCB to set the adjustment mode. (See Fig. 4-2)
3) Press the “5” button of remote control then adjustment is operated automatically. (See Fig. 4-1)
4) Connect the CH-1 probe to TP3 (Envelope) the CH-2 probe to TP4 (H’D switching pulse) and then trigger to CH-1.
5) Insert the (-) driver into the X-Point adjustment hole and adjust it so that envelope waveform is maximum.
6) Turn the Power off.

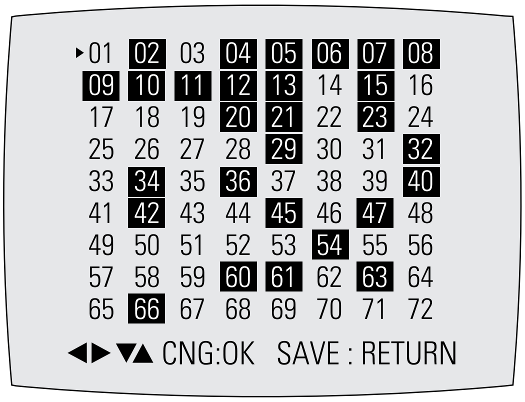
4-3 Head Switching Point Adjustment

1) Playback the alignment tape.
2) Press the “SW709(TEST)” button on Function-Timer PCB to set the adjustment mode. (See Fig. 4-2)
3) Press the “SPEED” button of remote control then adjustment is operated automatically. (See Fig. 4-1)

4-4 NVRAM Option Setting

1) NVRAM Option is adjusted at production line basically.
2) In case VCR Main PCB Micom (IC601) and NVRAM (IC605 ; EEPROM) is replaced, be sure to set the corresponding option number of the reqaired model. (If the option is not set, the unit is not operated.)

1) Press the “SW709(TEST)” button on Function-Timer PCB to set the adjustment mode. (See Fig. 4-2)
2) Press the “DISC MENU” button on the remote control about 5 seconds then option setting is appeared. (See Fig. 4-4)
3) Select the option number (See table 4-1) of corresponding model with “◀, ▶, ▲, ▼” button on the remote control.
4) If selecting the option number is completed, press the “▼” button of remote control.
(If “▼” button is pressed, the selected number is changes reversed color. ; See Fig. 4-4)
5) Press the “RETURN” button of remote control again to store the option number.
6) Turn the Power off.



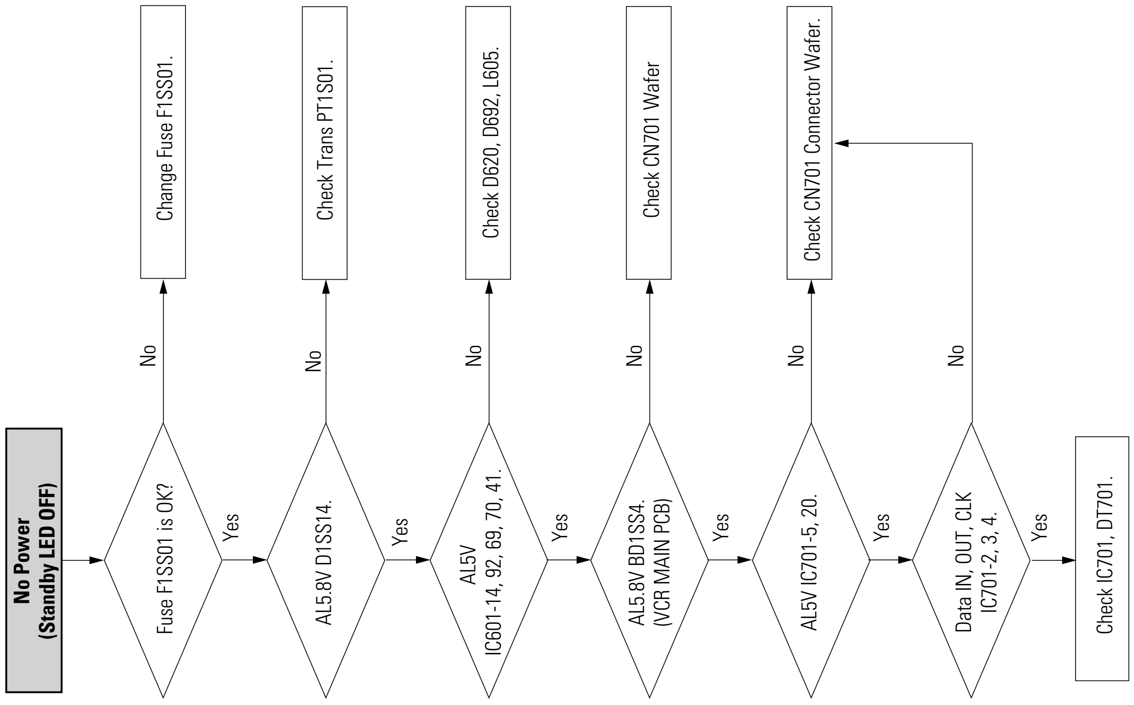
▸01 **02** 03 **04** **05** **06** **07** **08**
09 **10** **11** **12** **13** 14 **15** 16
17 18 19 **20** **21** 22 **23** 24
25 26 27 28 **29** 30 31 **32**
33 **34** 35 **36** 37 38 39 **40**
41 **42** 43 44 **45** 46 **47** 48
49 50 51 52 53 **54** 55 56
57 58 59 **60** **61** 62 **63** 64
65 **66** 67 68 69 70 71 72
◀▶▼▲ CNG:OK SAVE : RETURN

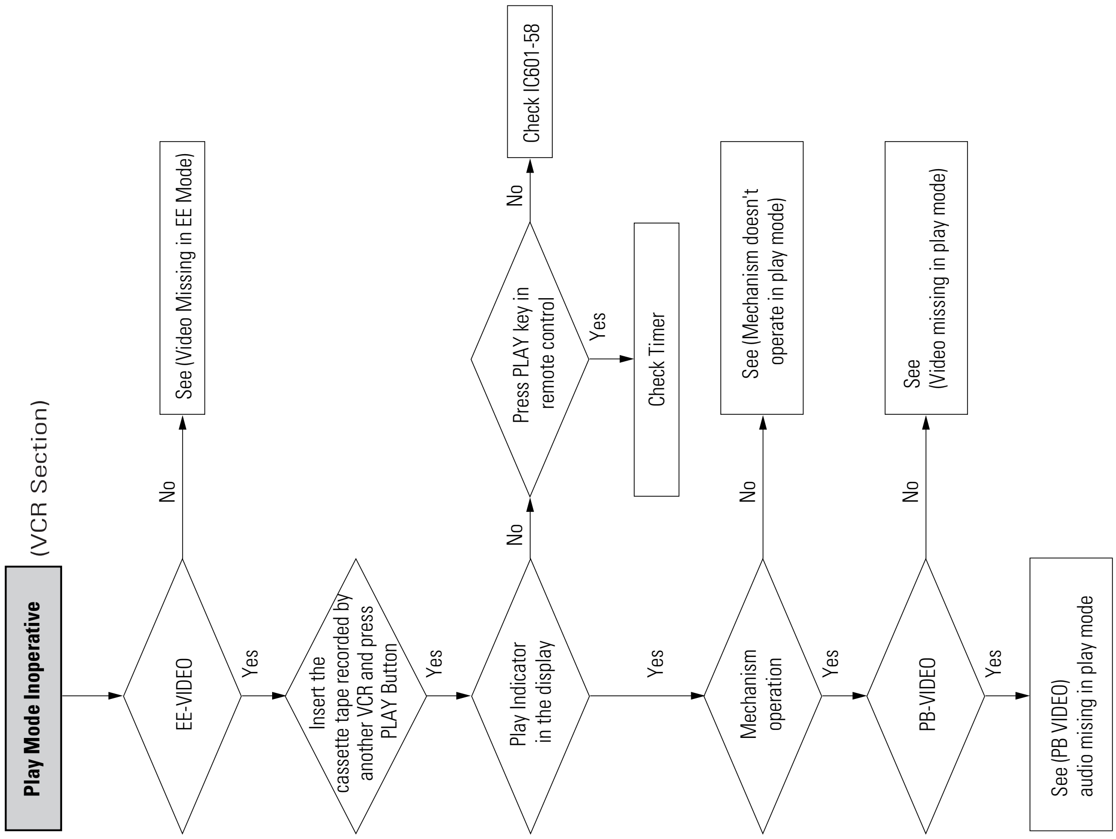
Fig.4-4

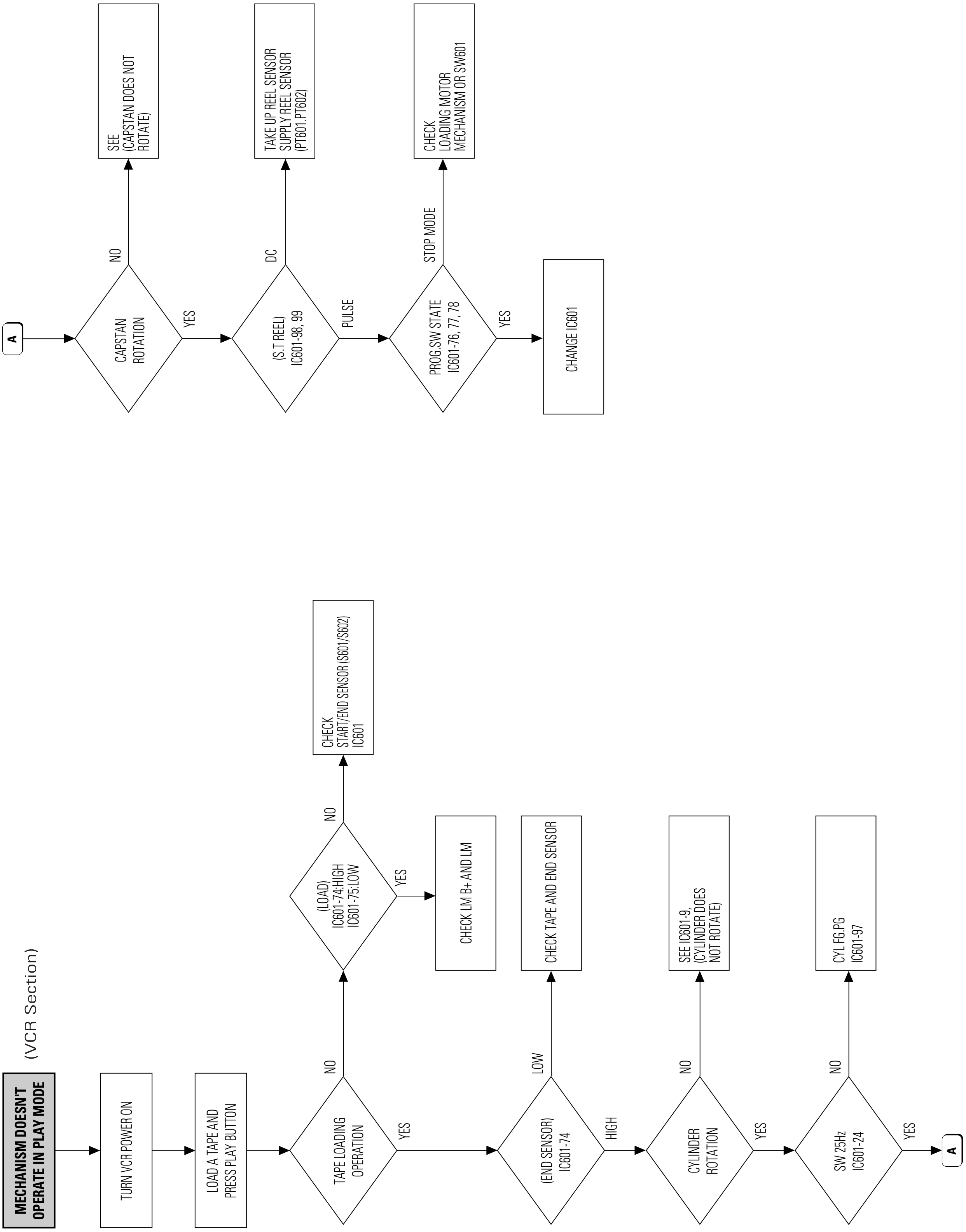
<Table 4-1 NVRAM Option Table>

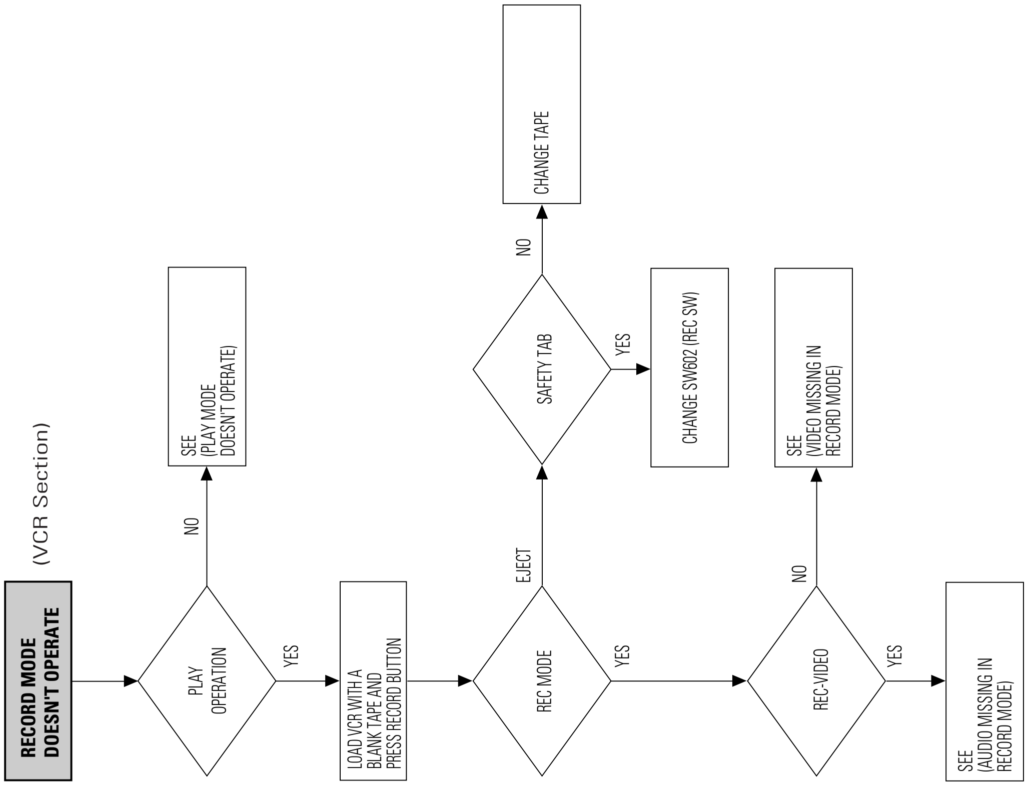
COUNTRY	MODELS	OPTION NUMBER
France	SV-DVD3E	2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 20, 21, 26, 29, 33, 34, 35, 36, 40, 45, 47, 60, 61, 63
	SV-DVD6E	2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 20, 21, 23, 26, 29, 32, 33, 34, 35, 36, 40, 45, 47, 60, 61, 63
U.K	SV-DVD3E	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 27, 29, 34, 40, 41, 45, 47, 60, 61, 63
	SV-DVD6E	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 23, 27, 29, 32, 34, 40, 41, 45, 47, 60, 61, 63
Swiss	SV-DVD3E	2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 20, 21, 29, 34, 36, 40, 42, 45, 47, 60, 61, 63
	SV-DVD6E	2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 20, 21, 23, 29, 32, 34, 36, 40, 42, 45, 47, 60, 61, 63
CIS	SV-DVD3E	2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 15, 20, 21, 29, 34, 36, 42, 45, 47, 54, 60, 61, 63
	SV-DVD6E	2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 15, 20, 21, 23, 29, 32, 34, 36, 42, 45, 47, 54, 60, 61, 63
Greece/Hungary/Czech	SV-DVD3E	2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 15, 20, 29, 34, 36, 42, 45, 47, 60, 61, 63
Macedonia/Poland/Croatia	SV-DVD6E	2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 15, 20, 23, 29, 32, 34, 36, 42, 45, 47, 60, 61, 63
Germany/Italy/Spain/Austria	SV-DVD3E	2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 20, 29, 34, 36, 40, 42, 45, 47, 60, 61, 63
Netherlans/Portugal/Pan-Scan	SV-DVD6E	2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 20, 23, 29, 32, 34, 36, 40, 42, 45, 47, 60, 61, 63

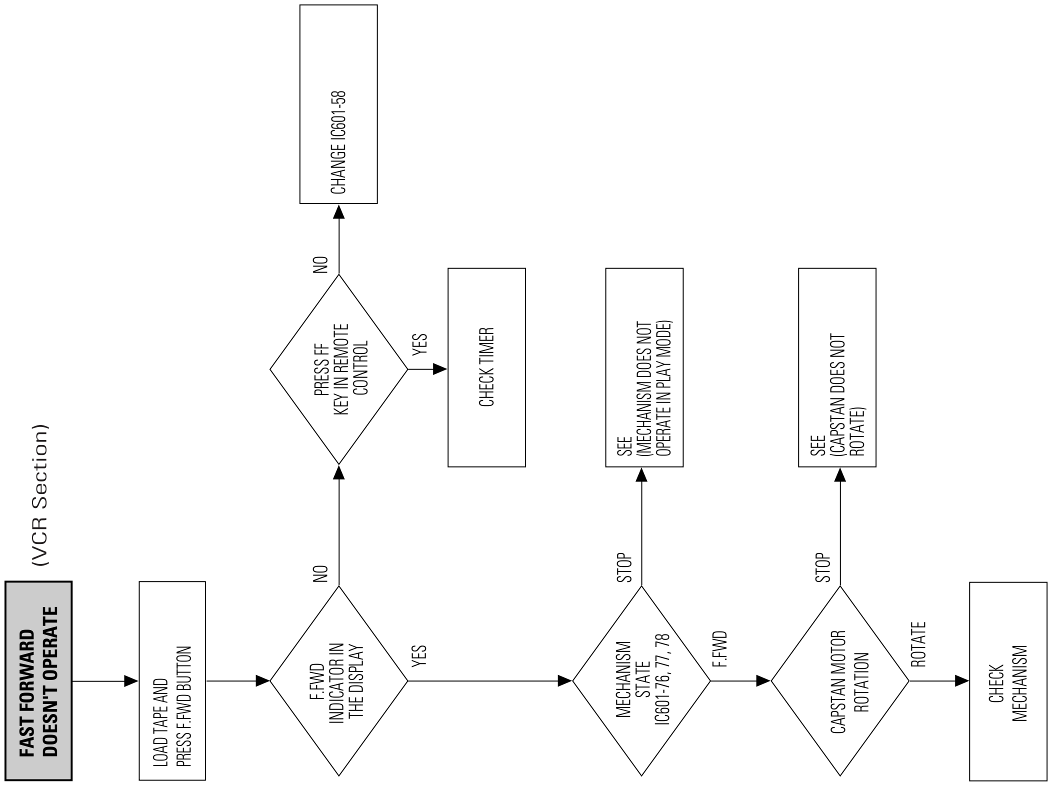
5. Troubleshooting


No Power
(Standby LED OFF)
Fuse F1SS01 is OK?
No
Change Fuse F1SS01.
Yes
AL5.8V D1SS14.
No
Check Trans PT1S01.
Yes
AL5V
IC601-14, 92, 69, 70, 41.
No
Check D620, D692, L605.
Yes
AL5.8V BD1SS4.
(VCR MAIN PCB)
No
Check CN701 Wafer
Yes
AL5V IC701-5, 20.
No
Check CN701 Connector Wafer.
Yes
Data IN, OUT, CLK
IC701-2, 3, 4.
No
Yes
Check IC701, DT701.


Play Mode Inoperative
(VCR Section)
EE-VIDEO
No
See (Video Missing in EE Mode)
Yes
Insert the cassette tape recorded by another VCR and press PLAY Button
Yes
Play Indicator in the display
No
Press PLAY key in remote control
No
Check IC601-58
Yes
Check Timer
Yes
Mechanism operation
No
See (Mechanism doesn't operate in play mode)
Yes
PB-VIDEO
No
See (Video missing in play mode)
Yes
See (PB VIDEO) audio mising in play mode

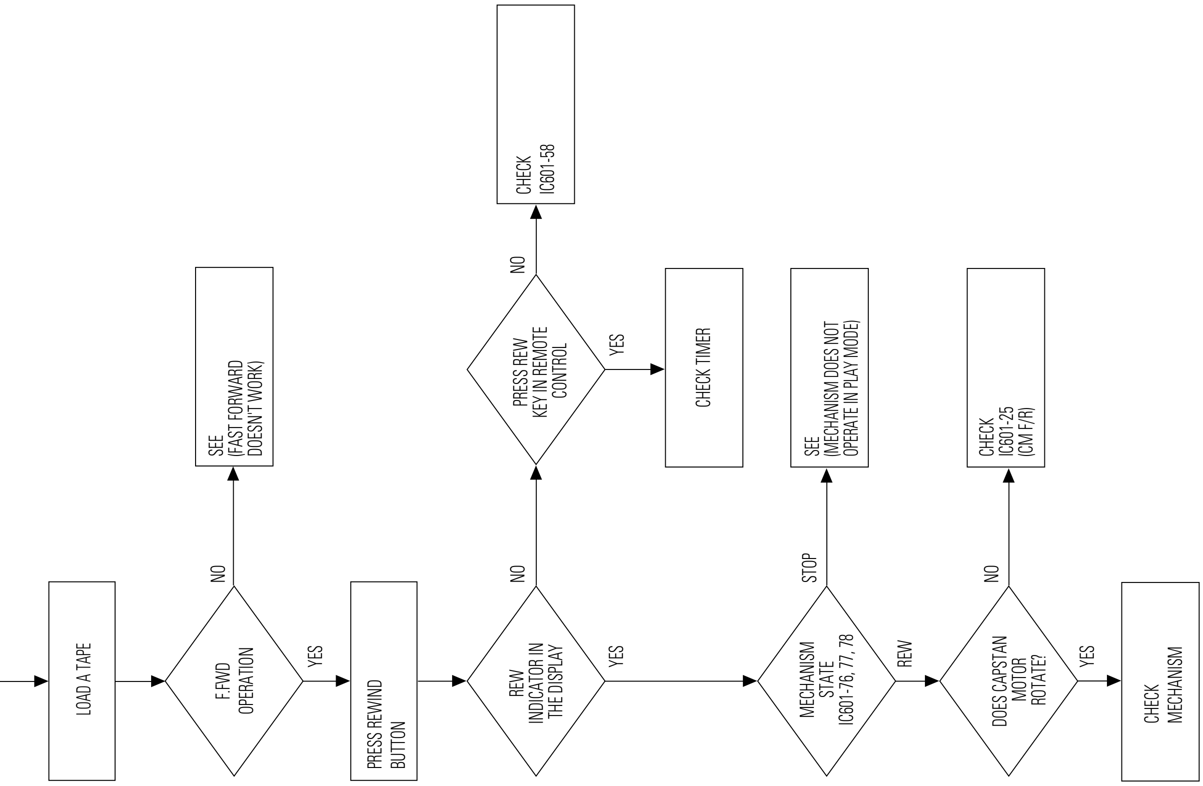

MECHANISM DOESN'T OPERATE IN PLAY MODE
(VCR Section)
TURN VCR POWER ON
LOAD A TAPE AND PRESS PLAY BUTTON
TAPE LOADING OPERATION
NO
YES
(LOAD) IC601-74:HIGH IC601-75:LOW
NO
CHECK START/END SENSOR (S601/S602) IC601
YES
CHECK LM B+ AND LM
(END SENSOR) IC601-74
LOW
CHECK TAPE AND END SENSOR
HIGH
CYLINDER ROTATION
NO
SEE IC601-9, (CYLINDER DOES NOT ROTATE)
YES
SW 25Hz IC601-24
NO
CYL FG.PG IC601-97
YES
A
A
CAPSTAN ROTATION
NO
SEE (CAPSTAN DOES NOT ROTATE)
YES
(S.T REEL) IC601-98, 99
DC
TAKE UP REEL SENSOR SUPPLY REEL SENSOR (PT601.PT602)
PULSE
PROG.SW STATE IC601-76, 77, 78
STOP MODE
CHECK LOADING MOTOR MECHANISM OR SW601
YES
CHANGE IC601


RECORD MODE DOESN'T OPERATE
(VCR Section)
PLAY OPERATION
NO
SEE (PLAY MODE DOESN'T OPERATE)
YES
LOAD VCR WITH A BLANK TAPE AND PRESS RECORD BUTTON
REC MODE
EJECT
SAFETY TAB
NO
CHANGE TAPE
YES
CHANGE SW602 (REC SW)
YES
REC-VIDEO
NO
SEE (VIDEO MISSING IN RECORD MODE)
YES
SEE (AUDIO MISSING IN RECORD MODE)


FAST FORWARD DOESN'T OPERATE
(VCR Section)
LOAD TAPE AND PRESS F.FWD BUTTON
F.FWD INDICATOR IN THE DISPLAY
NO
PRESS FF KEY IN REMOTE CONTROL
NO
CHANGE IC601-58
YES
CHECK TIMER
YES
MECHANISM STATE IC601-76, 77, 78
STOP
SEE (MECHANISM DOES NOT OPERATE IN PLAY MODE)
F.FWD
CAPSTAN MOTOR ROTATION
STOP
SEE (CAPSTAN DOES NOT ROTATE)
ROTATE
CHECK MECHANISM

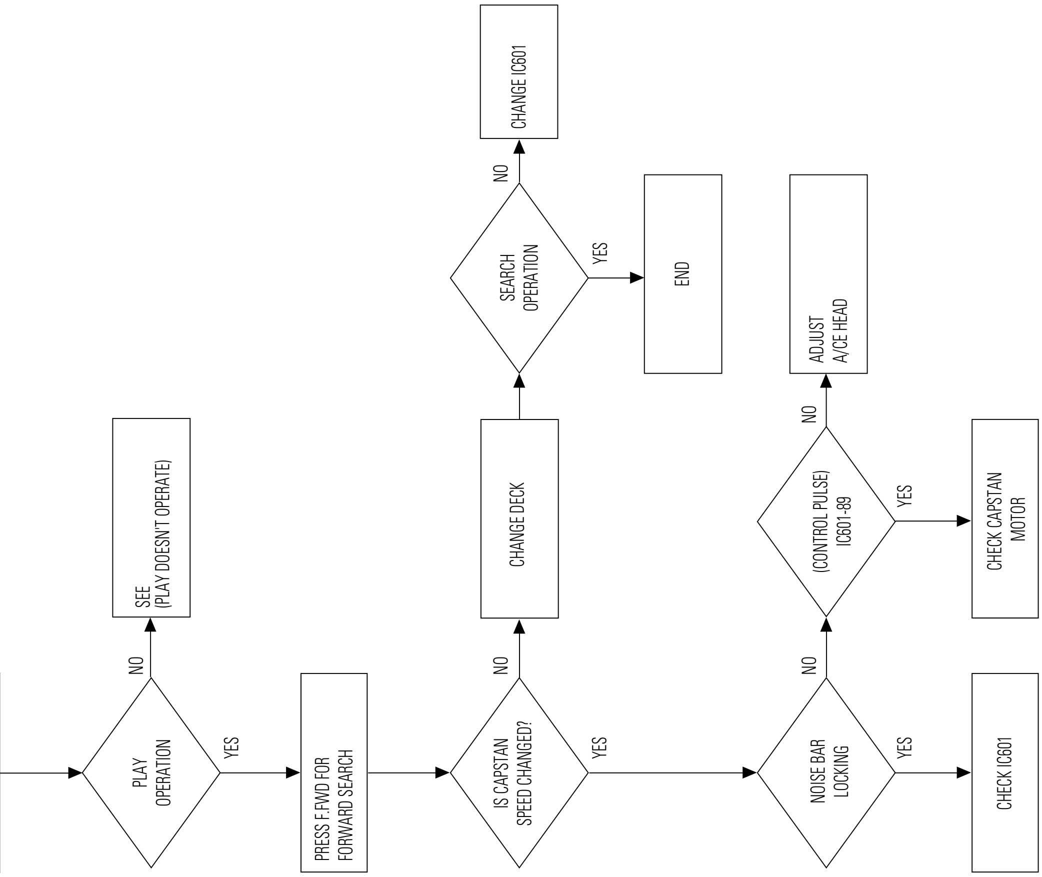
REWIND DOESN'T OPERATE

(VCR Section)

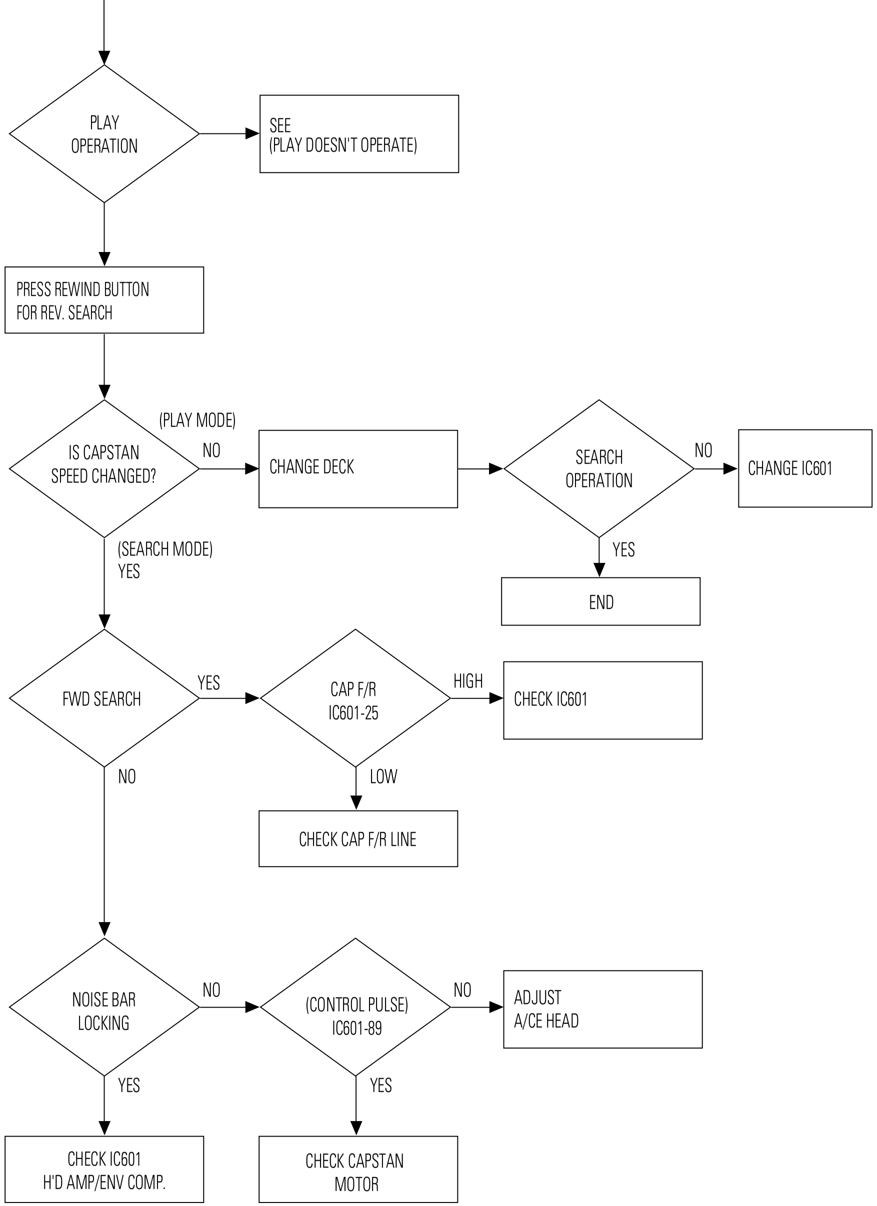

LOAD A TAPE
F.FWD OPERATION
NO
SEE (FAST FORWARD DOESN'T WORK)
YES
PRESS REWIND BUTTON
REW INDICATOR IN THE DISPLAY
NO
PRESS REW KEY IN REMOTE CONTROL
YES
CHECK TIMER
NO
CHECK IC601-58
YES
MECHANISM STATE IC601-76, 77, 78
STOP
SEE (MECHANISM DOES NOT OPERATE IN PLAY MODE)
REW
DOES CAPSTAN MOTOR ROTATE?
NO
CHECK IC601-25 (CM F/R)
YES
CHECK MECHANISM

FWD SEARCH DOESN'T OPERATE

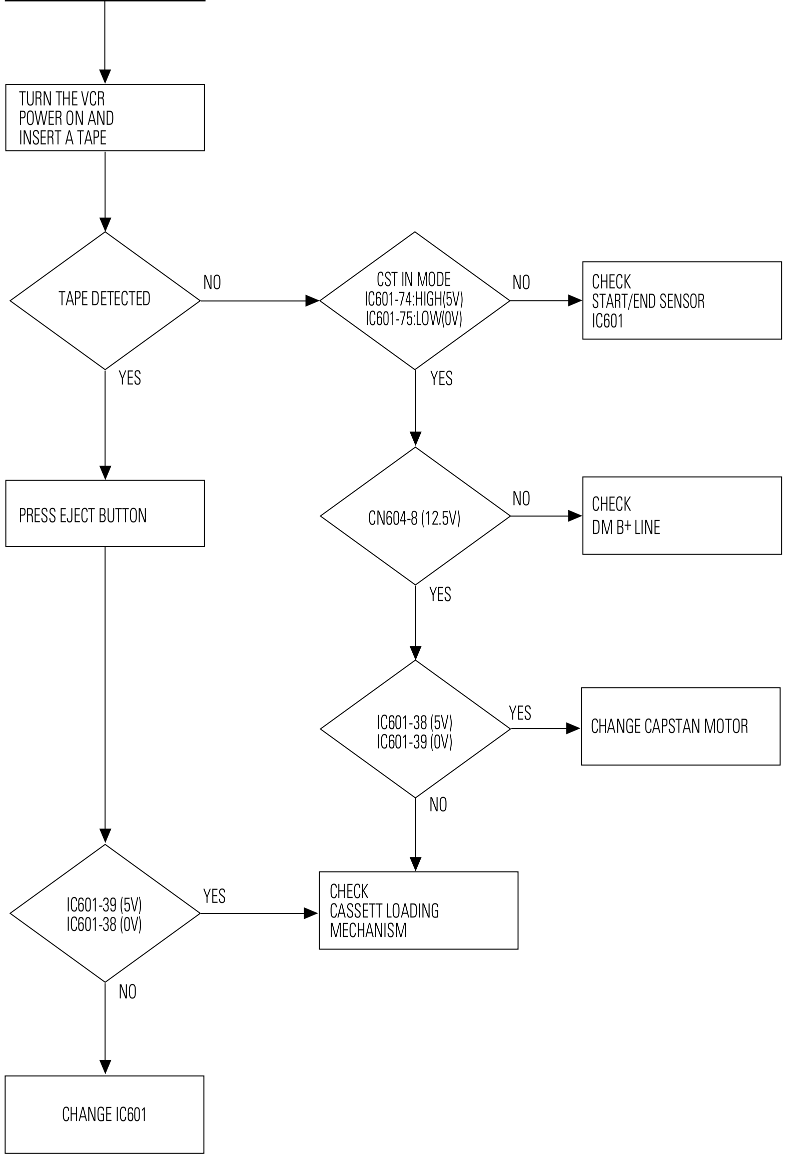
(VCR Section)

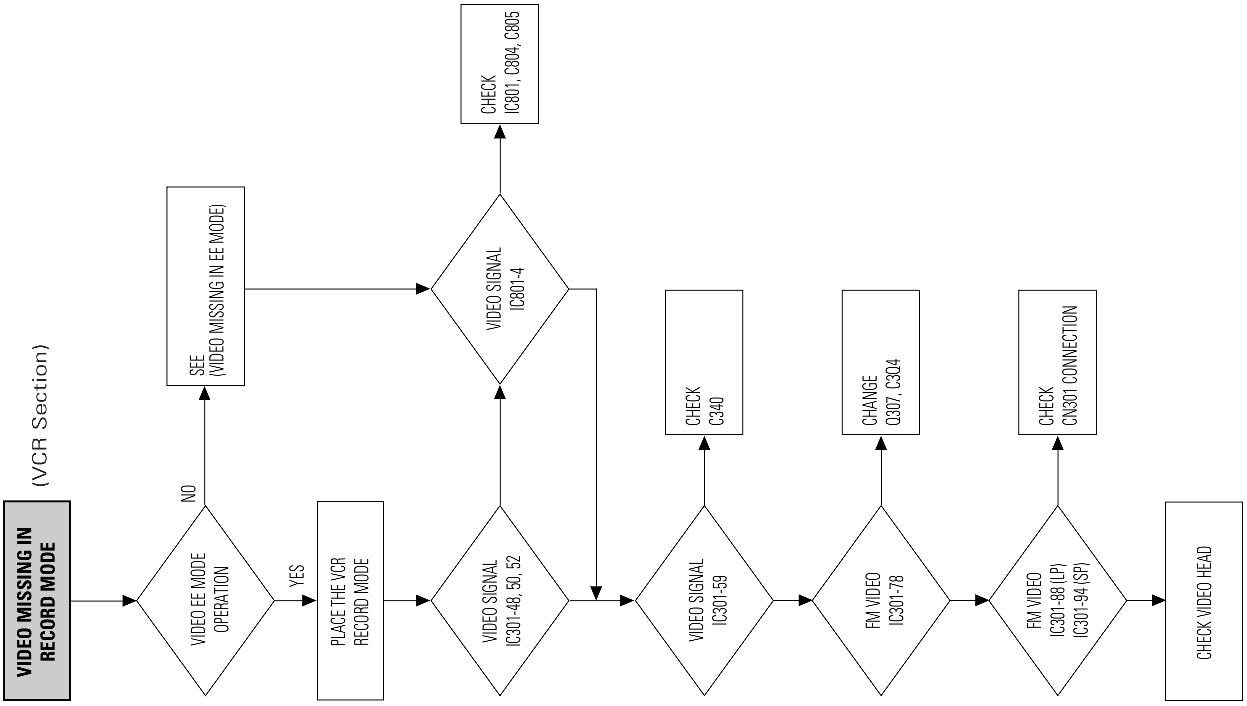

PLAY OPERATION
NO
SEE (PLAY DOESN'T OPERATE)
YES
PRESS F.FWD FOR FORWARD SEARCH
IS CAPSTAN SPEED CHANGED?
NO
CHANGE DECK
SEARCH OPERATION
YES
END
NO
CHANGE IC601
YES
NOISE BAR LOCKING
YES
CHECK IC601
NO
(CONTROL PULSE) IC601-89
YES
CHECK CAPSTAN MOTOR
NO
ADJUST A/CE HEAD

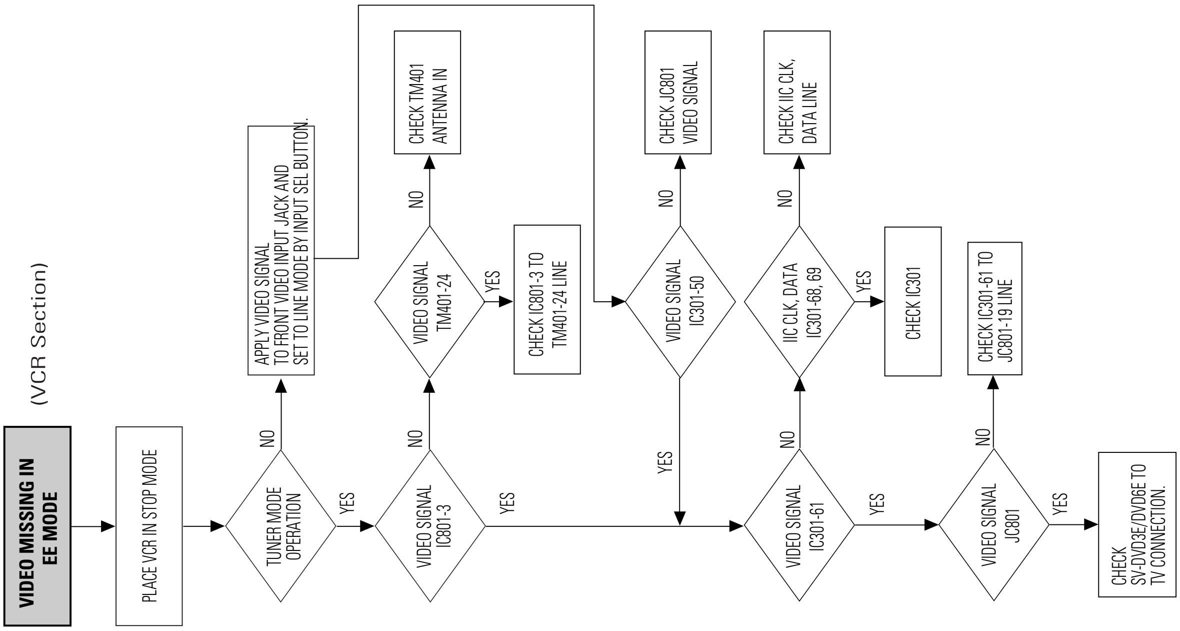
REV. SEARCH DOESN'T OPERATE (VCR Section)

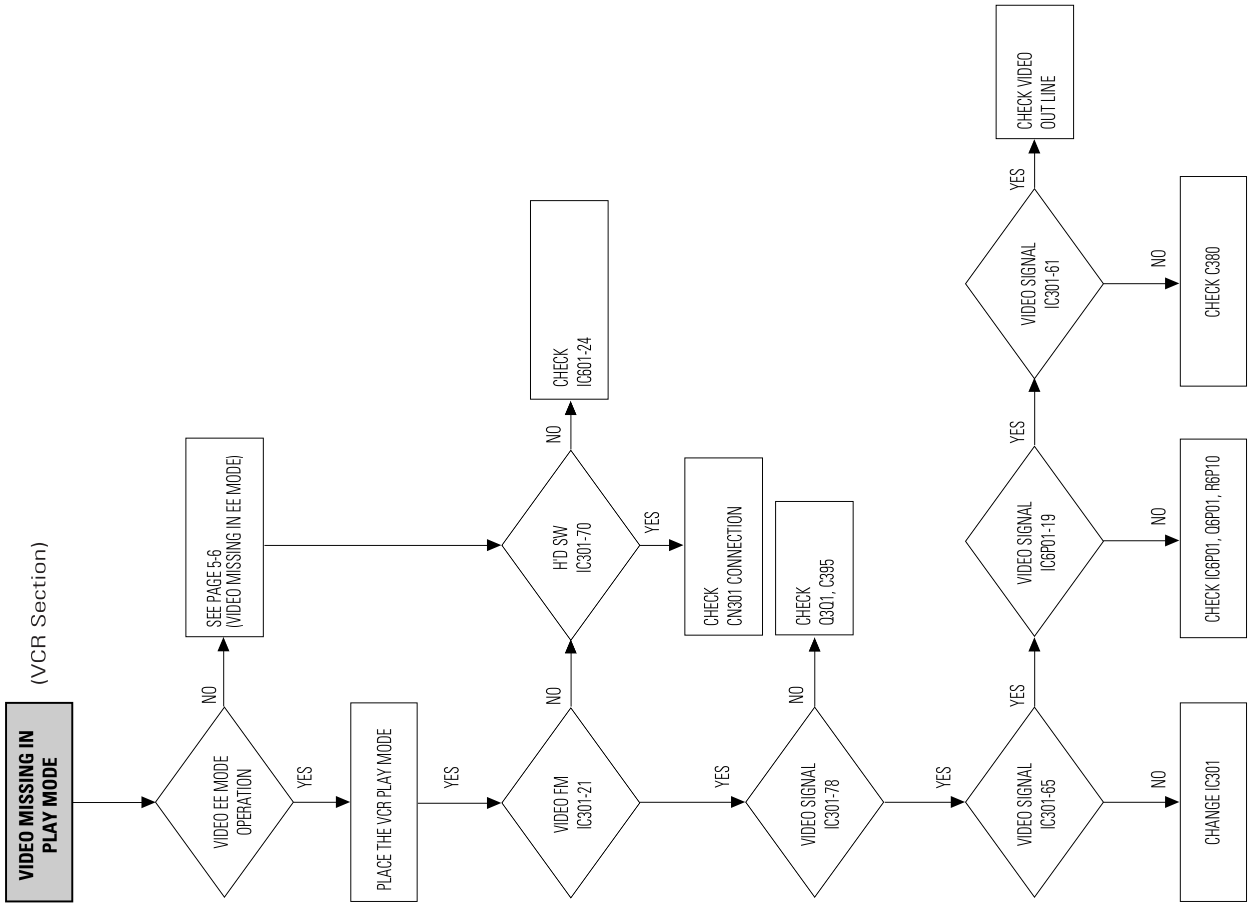

PLAY OPERATION
SEE (PLAY DOESN'T OPERATE)
PRESS REWIND BUTTON FOR REV. SEARCH
IS CAPSTAN SPEED CHANGED?
(PLAY MODE) NO
CHANGE DECK
SEARCH OPERATION
NO
CHANGE IC601
YES
END
(SEARCH MODE) YES
FWD SEARCH
YES
CAP F/R IC601-25
HIGH
CHECK IC601
LOW
CHECK CAP F/R LINE
NO
NOISE BAR LOCKING
NO
(CONTROL PULSE) IC601-89
NO
ADJUST A/CE HEAD
YES
CHECK CAPSTAN MOTOR
YES
CHECK IC601 H'D AMP/ENV COMP.

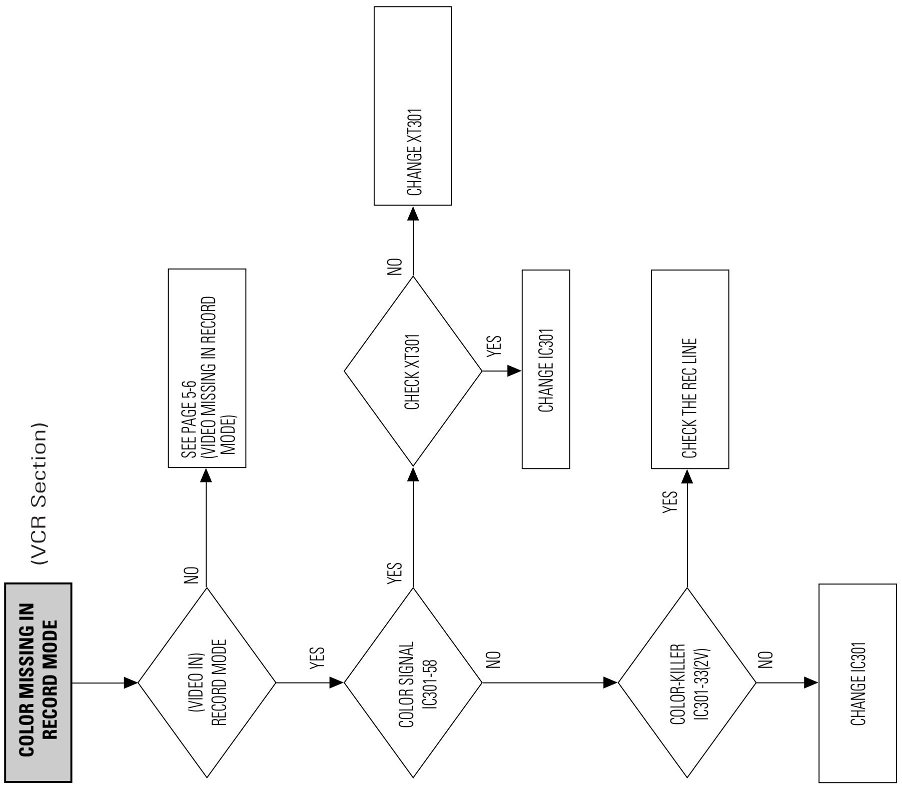
CASSETTE LOADING MECHANISM DOES NOT OPERATE (VCR Section)


TURN THE VCR POWER ON AND INSERT A TAPE
TAPE DETECTED
NO
CST IN MODE IC601-74:HIGH(5V) IC601-75:LOW(0V)
NO
CHECK START/END SENSOR IC601
YES
CN604-8 (12.5V)
NO
CHECK DM B+ LINE
YES
IC601-38 (5V) IC601-39 (0V)
YES
CHANGE CAPSTAN MOTOR
NO
CHECK CASSETT LOADING MECHANISM
YES
PRESS EJECT BUTTON
IC601-39 (5V) IC601-38 (0V)
YES
NO
CHANGE IC601

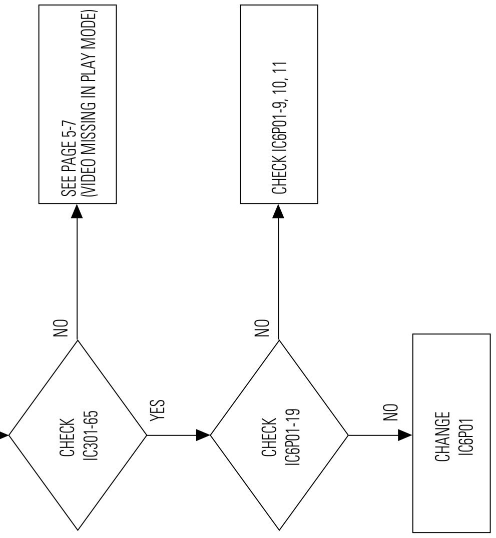

VIDEO MISSING IN RECORD MODE
(VCR Section)
VIDEO EE MODE OPERATION
NO
SEE (VIDEO MISSING IN EE MODE)
YES
PLACE THE VCR RECORD MODE
VIDEO SIGNAL IC301-48, 50, 52
VIDEO SIGNAL IC801-4
CHECK IC801, C804, C805
VIDEO SIGNAL IC301-59
CHECK C340
FM VIDEO IC301-78
CHANGE Q307, C3Q4
FM VIDEO IC301-88 (LP) IC301-94 (SP)
CHECK CN301 CONNECTION
CHECK VIDEO HEAD


VIDEO MISSING IN EE MODE
(VCR Section)
PLACE VCR IN STOP MODE
TUNER MODE OPERATION
NO
APPLY VIDEO SIGNAL TO FRONT VIDEO INPUT JACK AND SET TO LINE MODE BY INPUT SEL BUTTON.
YES
VIDEO SIGNAL IC801-3
NO
VIDEO SIGNAL TM401-24
NO
CHECK TM401 ANTENNA IN
YES
CHECK IC801-3 TO TM401-24 LINE
YES
VIDEO SIGNAL IC301-50
NO
CHECK JC801 VIDEO SIGNAL
YES
VIDEO SIGNAL IC301-61
NO
IIC CLK, DATA IC301-68, 69
NO
CHECK IIC CLK, DATA LINE
YES
CHECK IC301
YES
VIDEO SIGNAL JC801
NO
CHECK IC301-61 TO JC801-19 LINE
YES
CHECK SV-DVD3E/DVD6E TO TV CONNECTION.

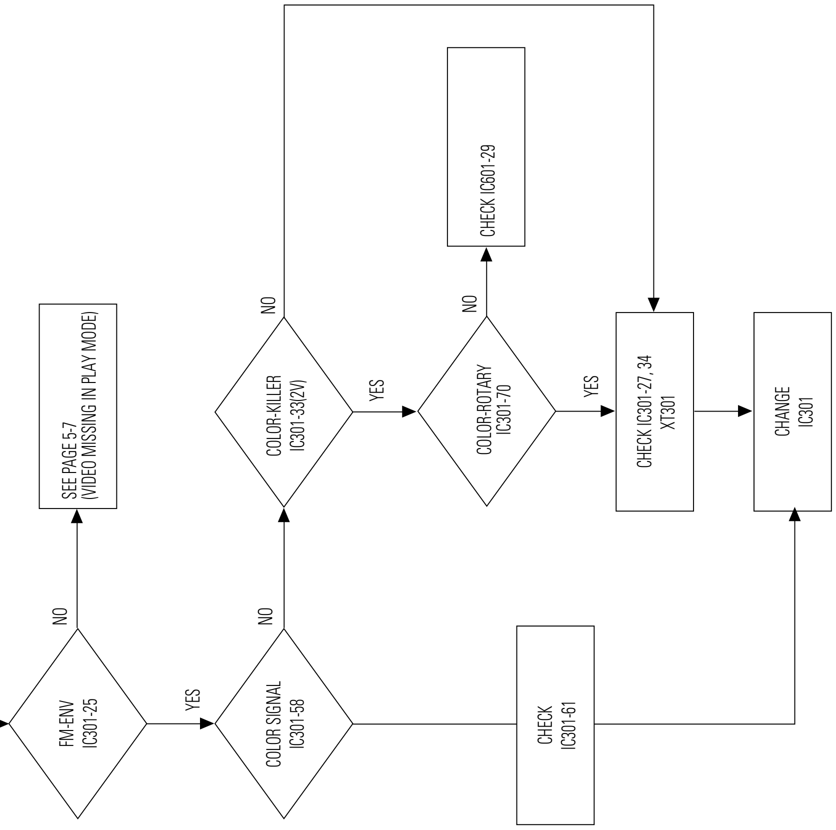

VIDEO MISSING IN PLAY MODE
(VCR Section)
VIDEO EE MODE OPERATION
NO
SEE PAGE 5-6 (VIDEO MISSING IN EE MODE)
YES
PLACE THE VCR PLAY MODE
YES
VIDEO FM IC301-21
NO
H'D SW IC301-70
NO
CHECK IC601-24
YES
CHECK CN301 CONNECTION
YES
VIDEO SIGNAL IC301-78
NO
CHECK Q301, C395
YES
VIDEO SIGNAL IC301-65
NO
CHANGE IC301
YES
VIDEO SIGNAL IC6P01-19
NO
CHECK IC6P01, Q6P01, R6P10
YES
VIDEO SIGNAL IC301-61
NO
CHECK C380
YES
CHECK VIDEO OUT LINE

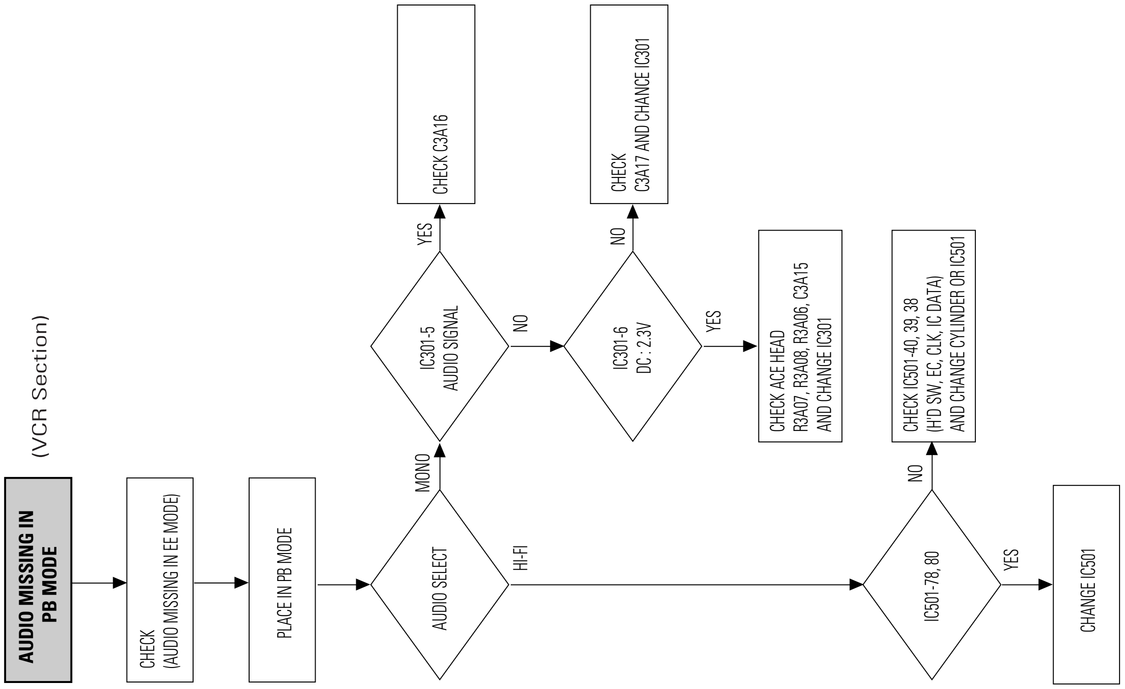

COLOR MISSING IN RECORD MODE
(VCR Section)
(VIDEO IN) RECORD MODE
NO
SEE PAGE 5-6 (VIDEO MISSING IN RECORD MODE)
YES
COLOR SIGNAL IC301-58
YES
CHECK XT301
NO
CHANGE XT301
YES
CHANGE IC301
NO
COLOR-KILLER IC301-33(2V)
YES
CHECK THE REC LINE
NO
CHANGE IC301

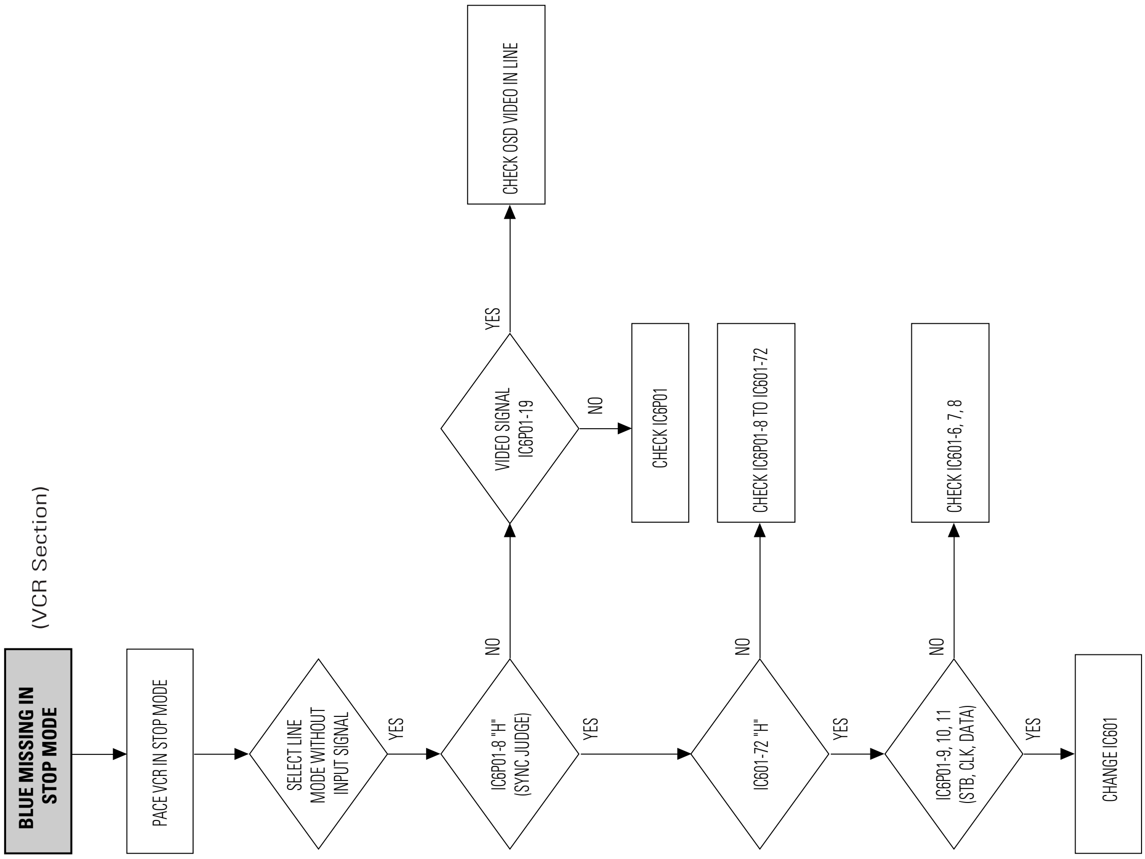
OSD PICTURE MISSING (VCR Section)

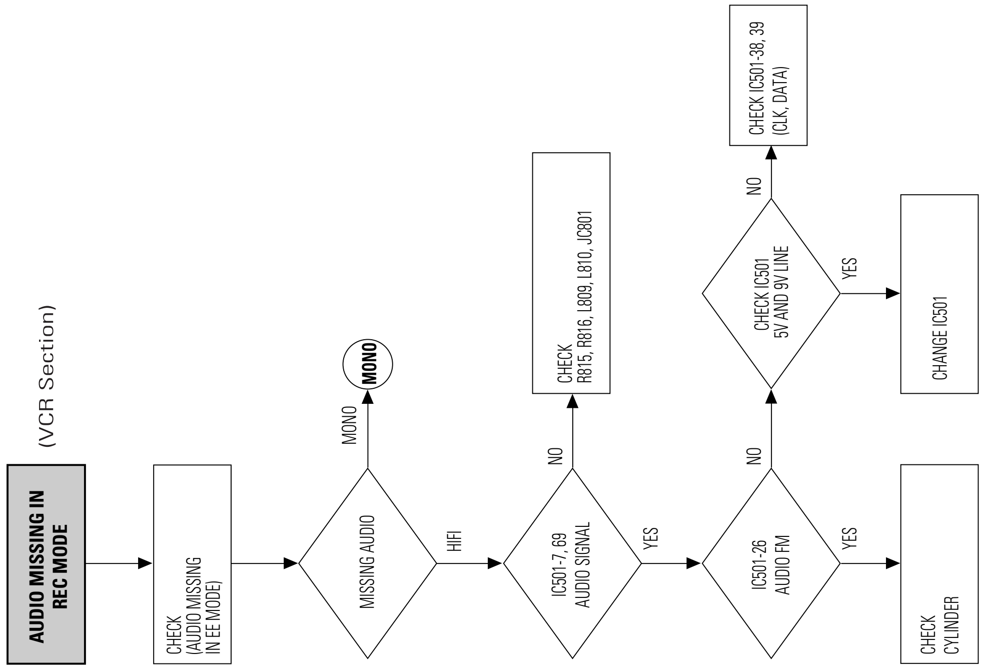

CHECK IC301-65
NO
SEE PAGE 5-7 (VIDEO MISSING IN PLAY MODE)
YES
CHECK IC6P01-19
NO
CHECK IC6P01-9, 10, 11
NO
CHANGE IC6P01

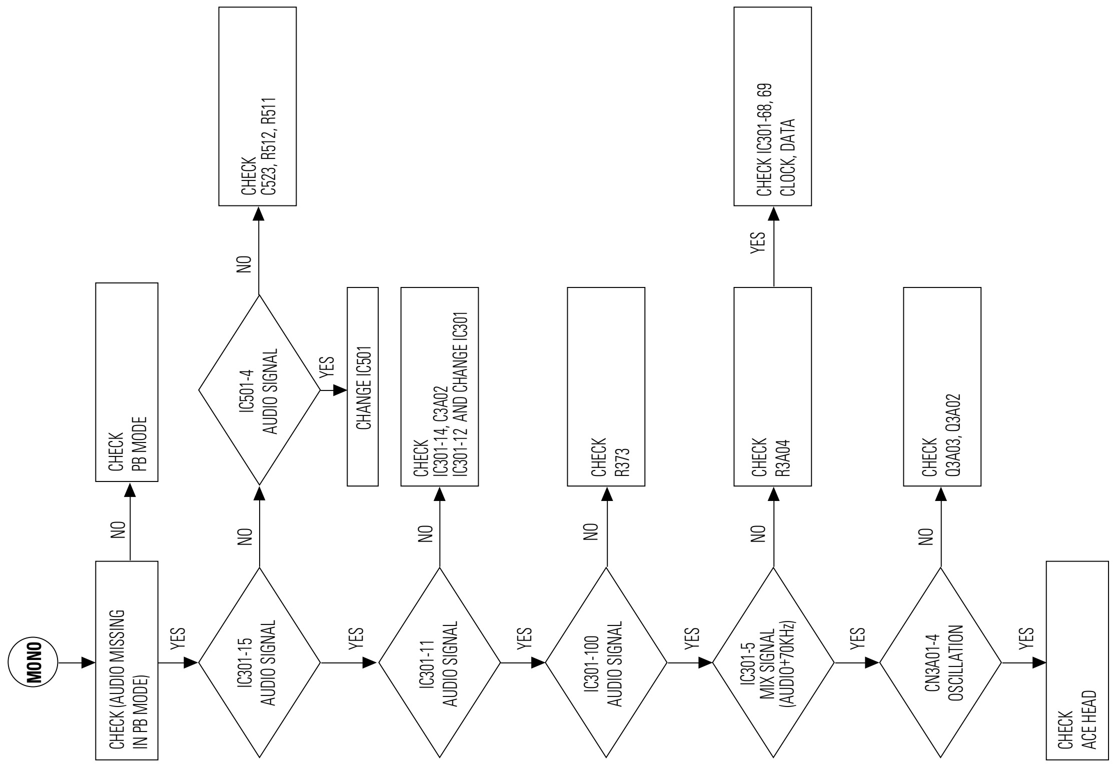
COLOR MISSING IN PLAY MODE (VCR Section)


FM-ENV IC301-25
NO
SEE PAGE 5-7 (VIDEO MISSING IN PLAY MODE)
YES
COLOR SIGNAL IC301-58
NO
COLOR-KILLER IC301-33(2V)
NO
YES
COLOR-ROTARY IC301-70
NO
CHECK IC601-29
YES
CHECK IC301-27, 34 XT301
CHANGE IC301
CHECK IC301-61


AUDIO MISSING IN PB MODE
(VCR Section)
CHECK (AUDIO MISSING IN EE MODE)
PLACE IN PB MODE
AUDIO SELECT
MONO
HI-FI
IC301-5 AUDIO SIGNAL
YES
CHECK C3A16
NO
IC301-6 DC : 2.3V
NO
CHECK C3A17 AND CHANCE IC301
YES
CHECK ACE HEAD R3A07, R3A08, R3A06, C3A15 AND CHANGE IC301
IC501-78, 80
NO
CHECK IC501-40, 39, 38 (H'D SW, EC, CLK, IC DATA) AND CHANGE CYLINDER OR IC501
YES
CHANGE IC501

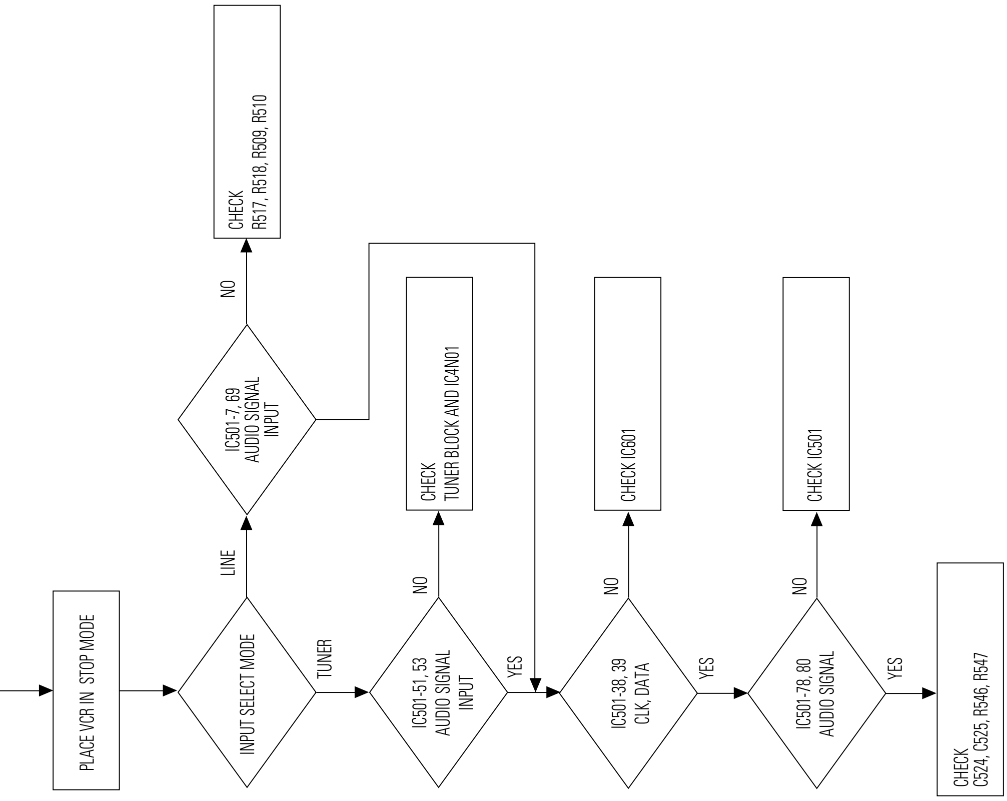

BLUE MISSING IN STOP MODE
(VCR Section)
PACE VCR IN STOP MODE
SELECT LINE MODE WITHOUT INPUT SIGNAL
YES
IC6P01-8 "H" (SYNC JUDGE)
NO
VIDEO SIGNAL IC6P01-19
YES
CHECK OSD VIDEO IN LINE
NO
CHECK IC6P01
YES
IC601-72 "H"
NO
CHECK IC6P01-8 TO IC601-72
YES
IC6P01-9, 10, 11 (STB, CLK, DATA)
NO
CHECK IC601-6, 7, 8
YES
CHANGE IC601


AUDIO MISSING IN REC MODE
(VCR Section)
CHECK (AUDIO MISSING IN EE MODE)
MISSING AUDIO
MONO
MONO
HIFI
IC501-7, 69 AUDIO SIGNAL
NO
CHECK R815, R816, L809, L810, JC801
YES
IC501-26 AUDIO FM
NO
CHECK IC501 5V AND 9V LINE
NO
CHECK IC501-38, 39 (CLK, DATA)
YES
CHANGE IC501
YES
CHECK CYLINDER


MONO
CHECK (AUDIO MISSING IN PB MODE)
NO
CHECK PB MODE
YES
IC301-15 AUDIO SIGNAL
NO
IC501-4 AUDIO SIGNAL
NO
CHECK C523, R512, R511
YES
CHANGE IC501
YES
IC301-11 AUDIO SIGNAL
NO
CHECK IC301-14, C3A02 IC301-12 AND CHANGE IC301
YES
IC301-100 AUDIO SIGNAL
NO
CHECK R373
YES
IC301-5 MIX SIGNAL (AUDIO+70KHz)
NO
CHECK R3A04
YES
CHECK IC301-68, 69 CLOCK, DATA
YES
CN3A01-4 OSCILLATION
NO
CHECK Q3A03, Q3A02
YES
CHECK ACE HEAD

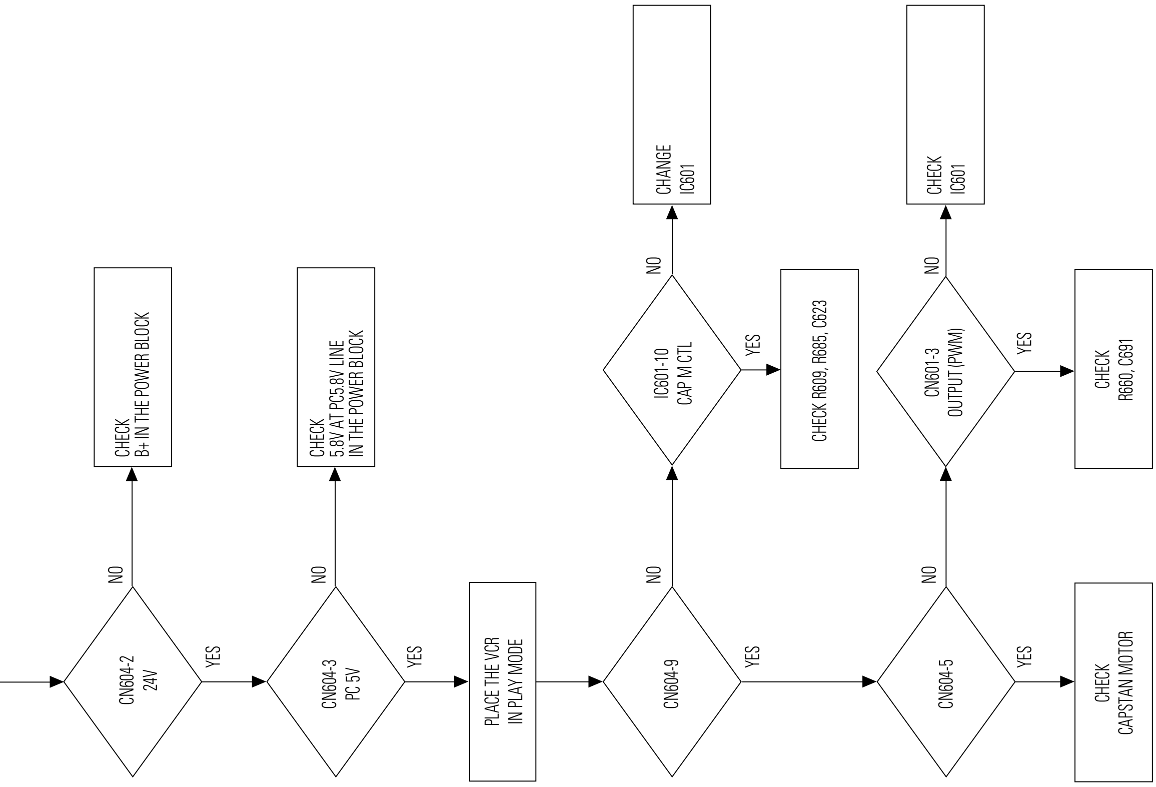
AUDIO MISSING IN EE MODE

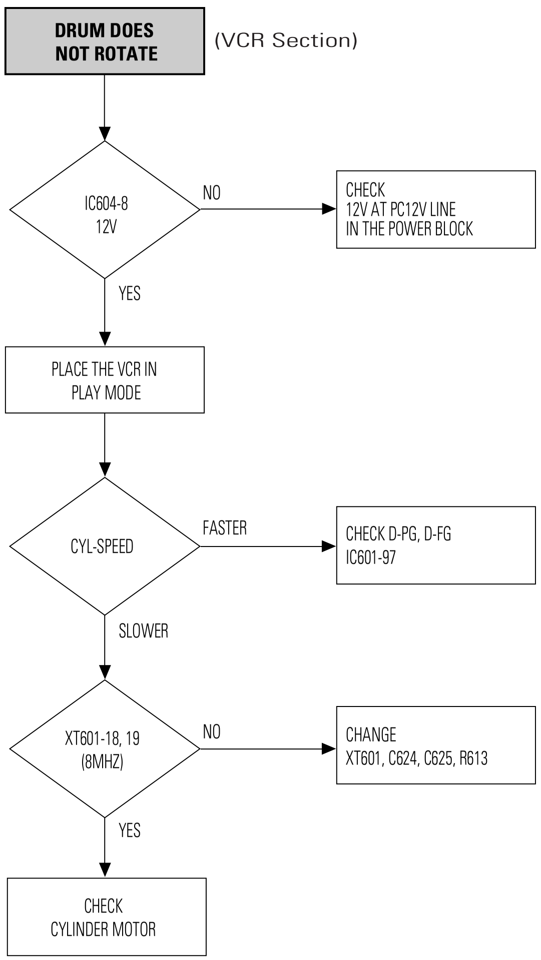
(VCR Section)

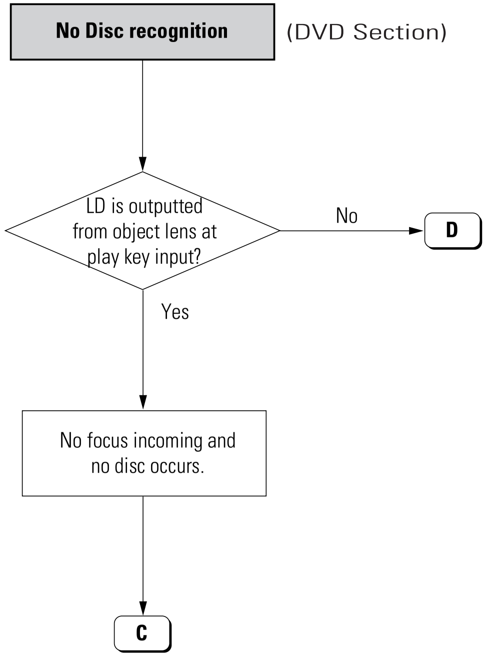

PLACE VCR IN STOP MODE
INPUT SELECT MODE
LINE
TUNER
IC501-7, 69 AUDIO SIGNAL INPUT
NO
CHECK R517, R518, R509, R510
IC501-51, 53 AUDIO SIGNAL INPUT
NO
CHECK TUNER BLOCK AND IC4N01
YES
IC501-38, 39 CLK, DATA
NO
CHECK IC601
YES
IC501-78, 80 AUDIO SIGNAL
NO
CHECK IC501
YES
CHECK C524, C525, R546, R547

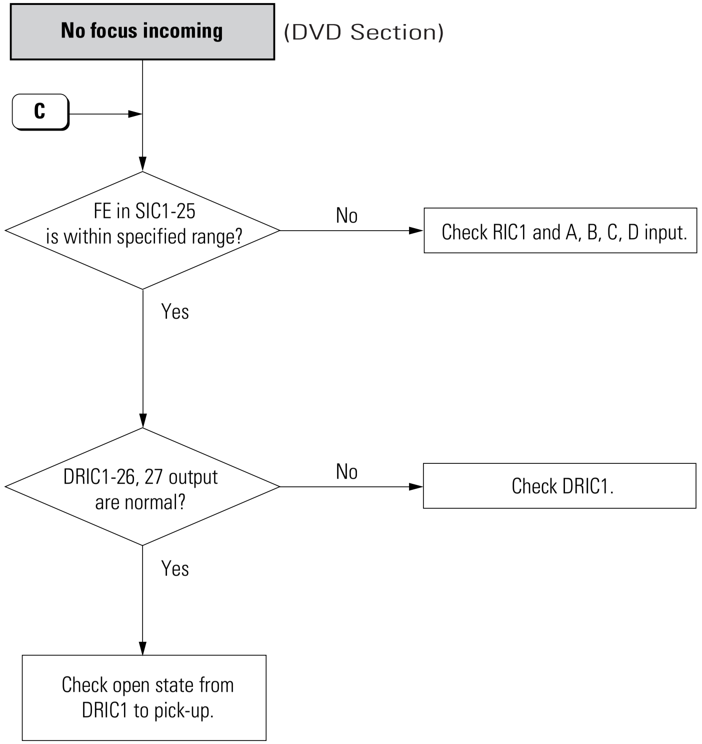
CAPSTAN DOES NOT ROTATE

(VCR Section)

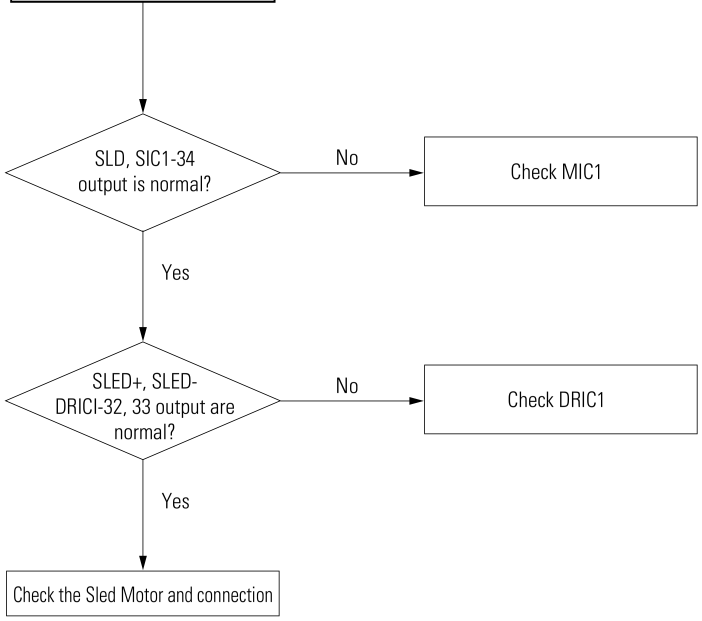

CN604-2 24V
NO
CHECK B+ IN THE POWER BLOCK
YES
CN604-3 PC 5V
NO
CHECK 5.8V AT PC5.8V LINE IN THE POWER BLOCK
YES
PLACE THE VCR IN PLAY MODE
CN604-9
NO
IC601-10 CAP M CTL
NO
CHANGE IC601
YES
CHECK R609, R685, C623
YES
CN604-5
NO
CN601-3 OUTPUT (PWM)
NO
CHECK IC601
YES
CHECK R660, C691
YES
CHECK CAPSTAN MOTOR


DRUM DOES NOT ROTATE
(VCR Section)
IC604-8 12V
NO
CHECK 12V AT PC12V LINE IN THE POWER BLOCK
YES
PLACE THE VCR IN PLAY MODE
CYL-SPEED
FASTER
CHECK D-PG, D-FG IC601-97
SLOWER
XT601-18, 19 (8MHZ)
NO
CHANGE XT601, C624, C625, R613
YES
CHECK CYLINDER MOTOR

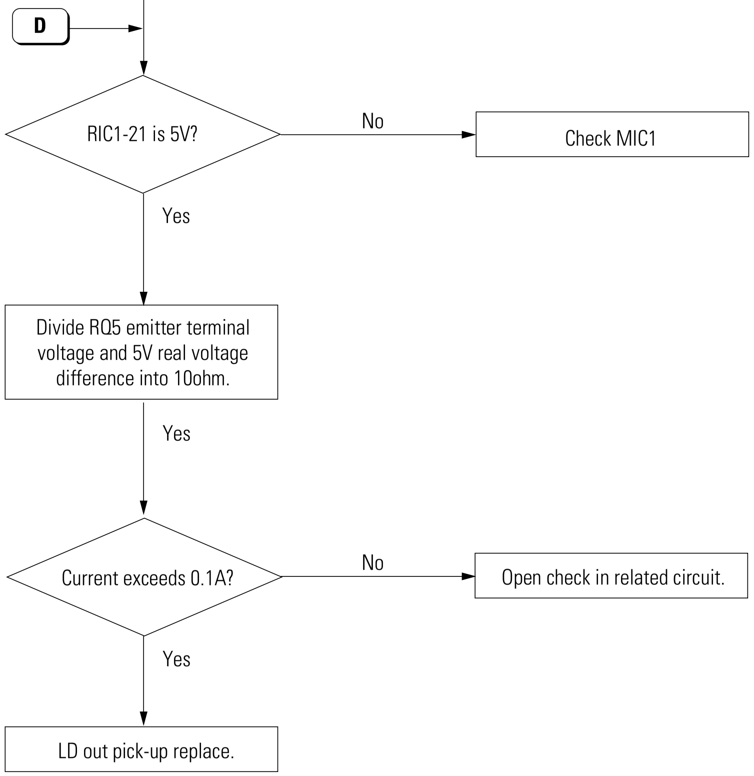

No Disc recognition
(DVD Section)
LD is outputted from object lens at play key input?
No
D
Yes
No focus incoming and no disc occurs.
C

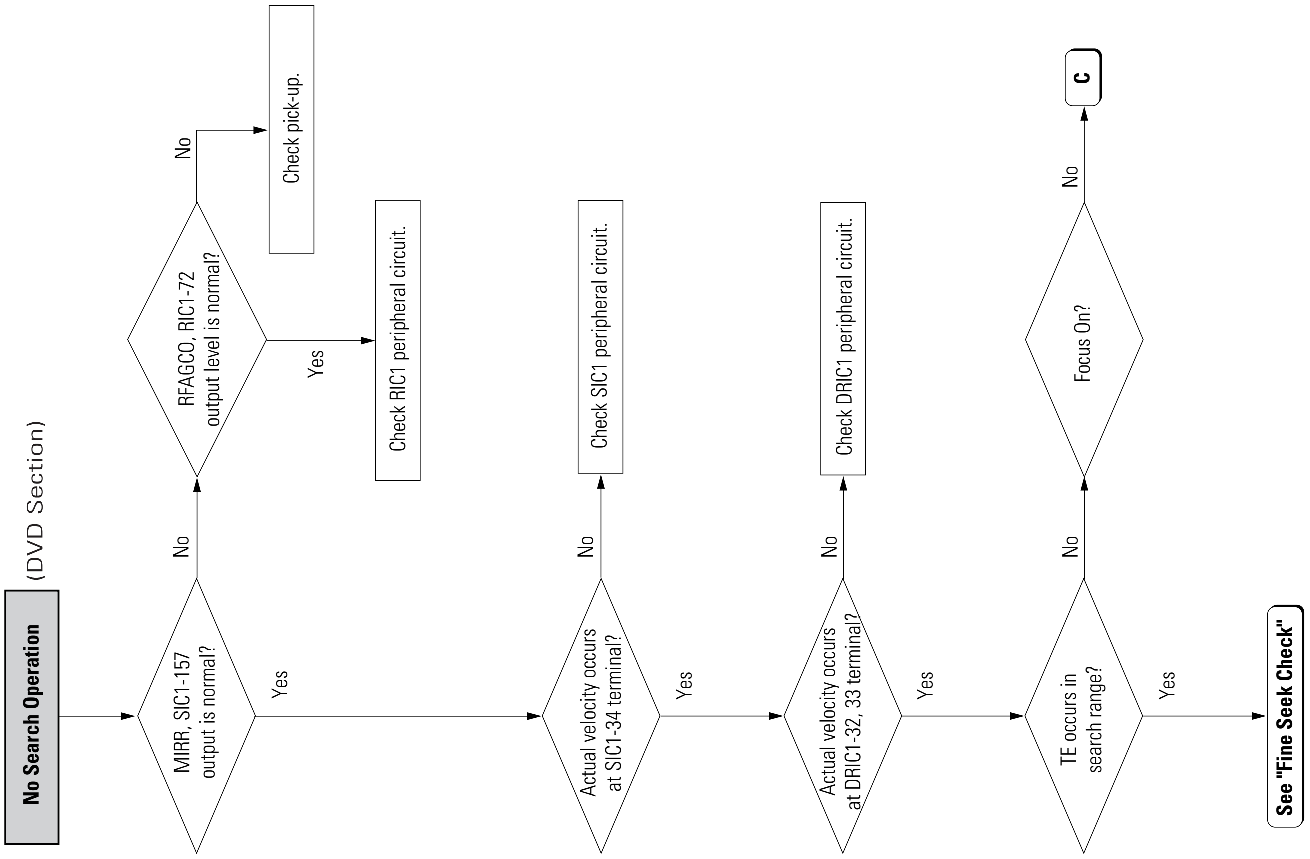

No focus incoming
(DVD Section)
C
FE in SIC1-25 is within specified range?
No
Check RIC1 and A, B, C, D input.
Yes
DRIC1-26, 27 output are normal?
No
Check DRIC1.
Yes
Check open state from DRIC1 to pick-up.

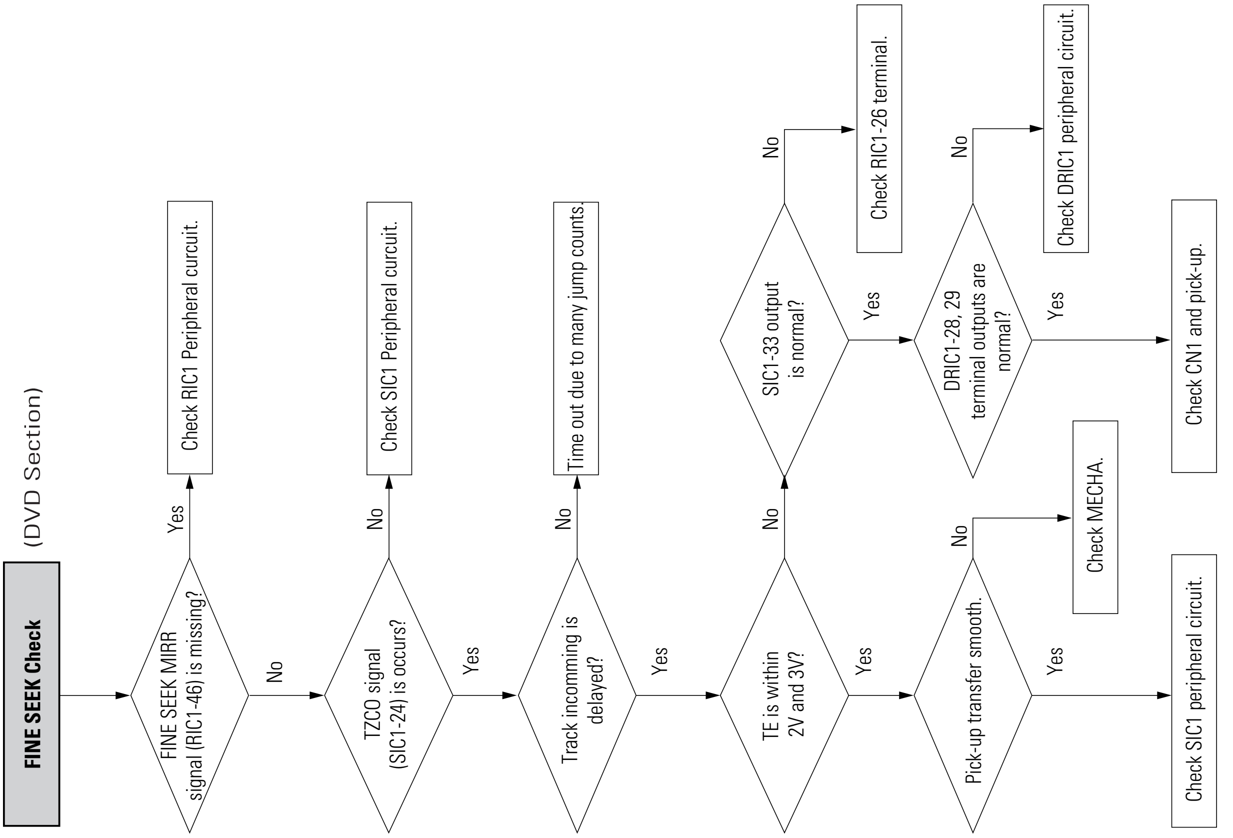
No pick-up home positing (DVD Section)

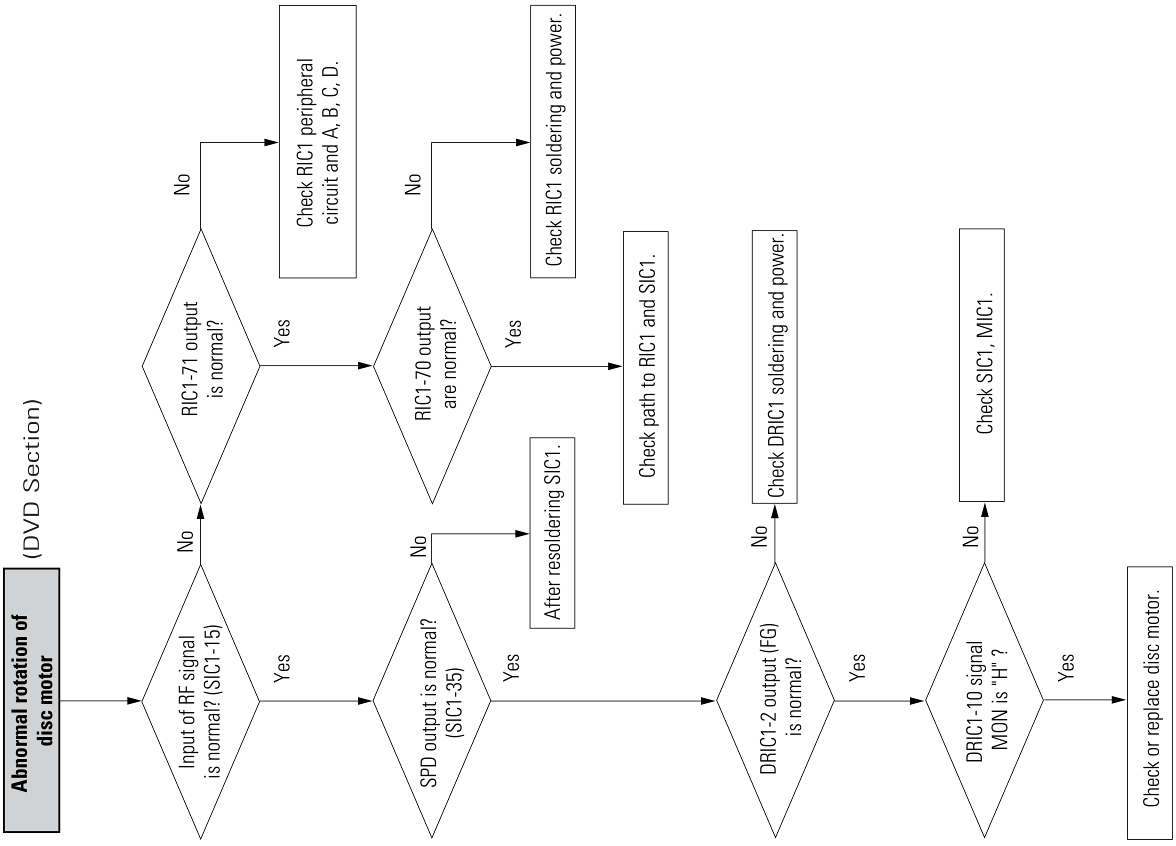

SLD, SIC1-34 output is normal?
No
Check MIC1
Yes
SLED+, SLED- DRICI-32, 33 output are normal?
No
Check DRIC1
Yes
Check the Sled Motor and connection

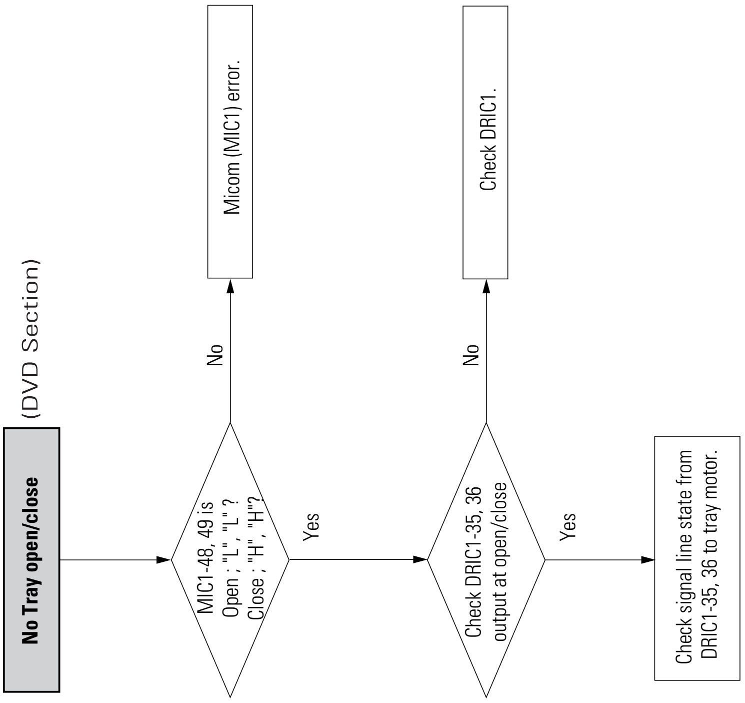
NO LD CD ON (DVD Section)

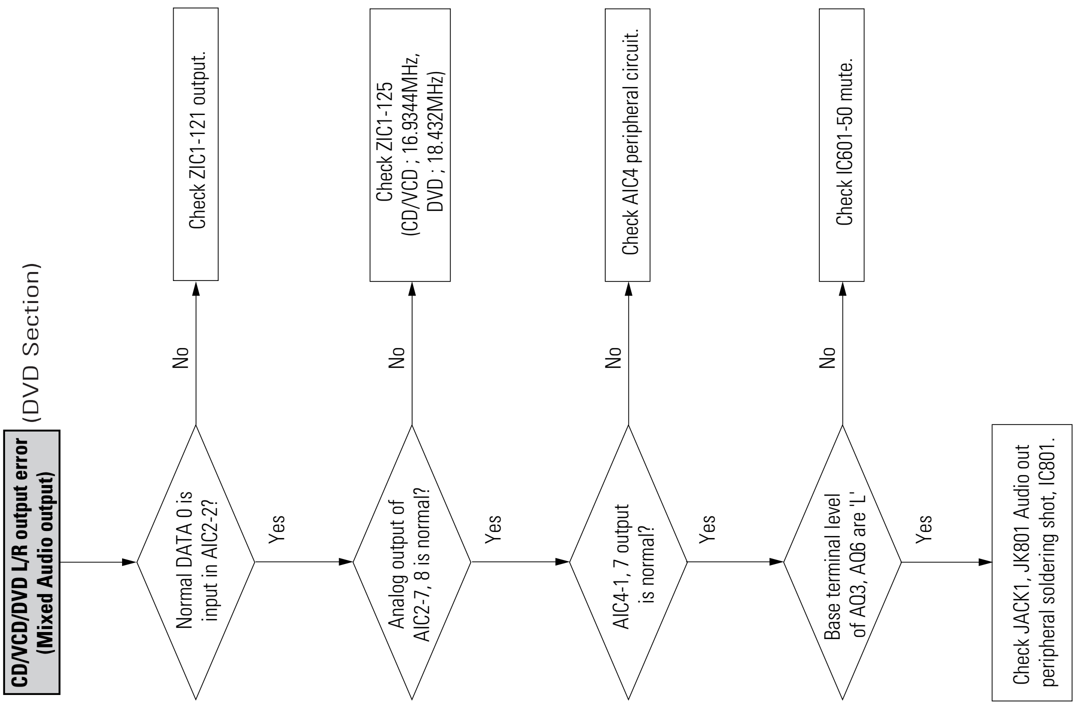

D
RIC1-21 is 5V?
No
Check MIC1
Yes
Divide RQ5 emitter terminal voltage and 5V real voltage difference into 10ohm.
Yes
Current exceeds 0.1A?
No
Open check in related circuit.
Yes
LD out pick-up replace.

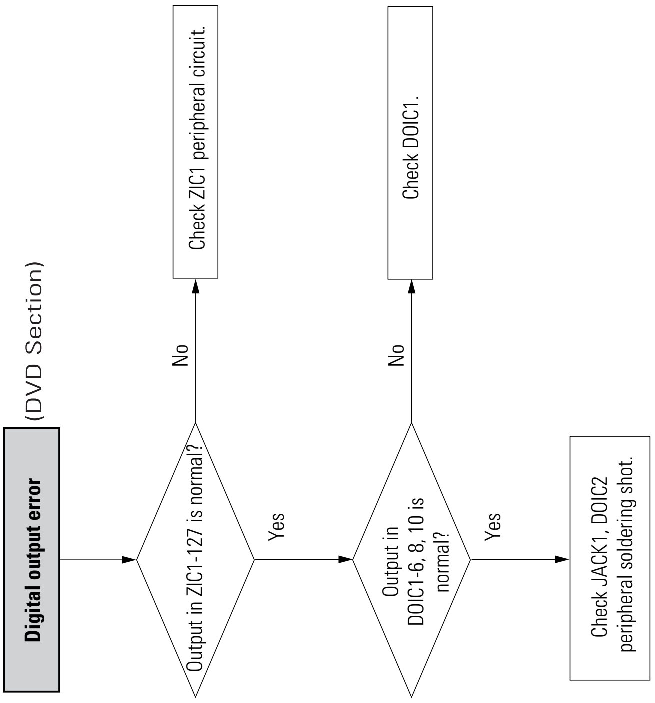

No Search Operation
(DVD Section)
MIRR, SIC1-157 output is normal?
Yes
No
RFAGCO, RIC1-72 output level is normal?
Yes
No
Check pick-up.
Check RIC1 peripheral circuit.
Actual velocity occurs at SIC1-34 terminal?
Yes
No
Check SIC1 peripheral circuit.
Actual velocity occurs at DRIC1-32, 33 terminal?
Yes
No
Check DRIC1 peripheral circuit.
TE occurs in search range?
Yes
No
Focus On?
No
C
See "Fine Seek Check"

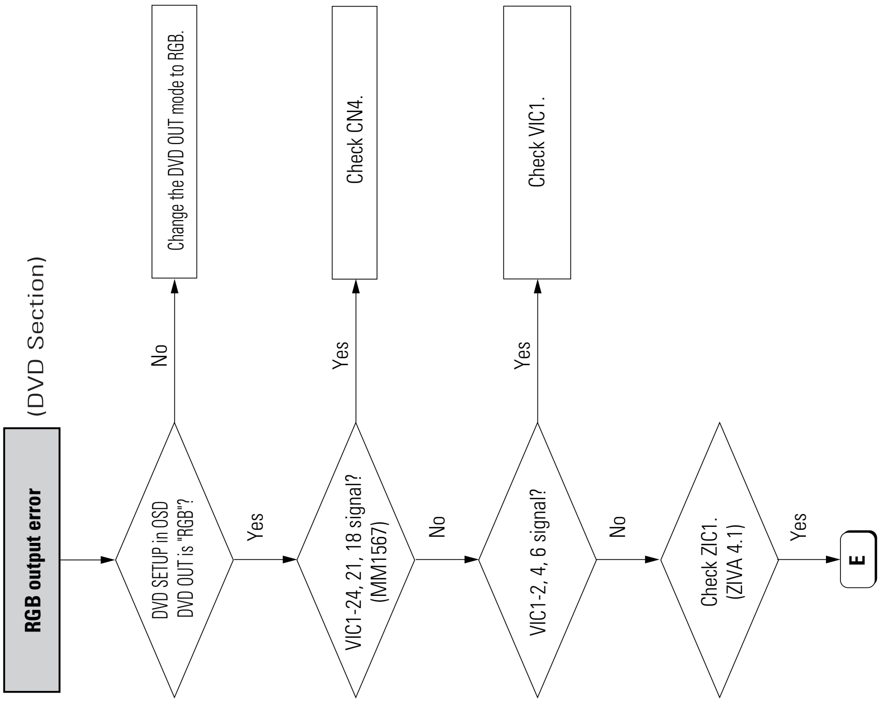

FINE SEEK Check
(DVD Section)
FINE SEEK MIRR signal (RIC1-46) is missing?
Yes
Check RIC1 Peripheral curcuit.
No
TZCO signal (SIC1-24) is occurs?
No
Check SIC1 Peripheral curcuit.
Yes
Track incomming is delayed?
No
Time out due to many jump counts.
Yes
TE is within 2V and 3V?
No
SIC1-33 output is normal?
No
Check RIC1-26 terminal.
Yes
DRIC1-28, 29 terminal outputs are normal?
No
Check DRIC1 peripheral circuit.
Yes
Check CN1 and pick-up.
Yes
Pick-up transfer smooth.
No
Check MECHA.
Yes
Check SIC1 peripheral circuit.

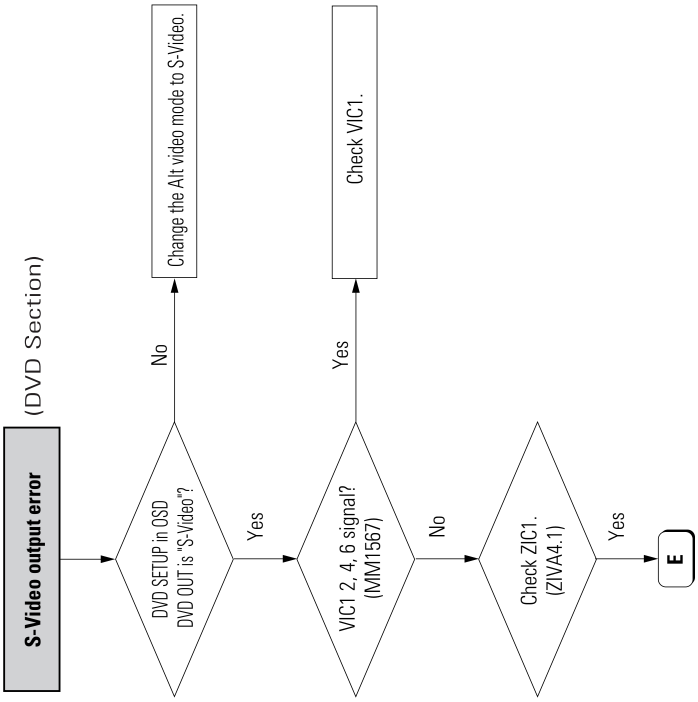

Abnormal rotation of disc motor
(DVD Section)
Input of RF signal is normal? (SIC1-15)
No
Yes
RIC1-71 output is normal?
No
Check RIC1 peripheral circuit and A, B, C, D.
Yes
RIC1-70 output are normal?
No
Check RIC1 soldering and power.
Yes
Check path to RIC1 and SIC1.
SPD output is normal? (SIC1-35)
No
After resoldering SIC1.
Yes
DRIC1-2 output (FG) is normal?
No
Check DRIC1 soldering and power.
Yes
DRIC1-10 signal MON is "H" ?
No
Check SIC1, MIC1.
Yes
Check or replace disc motor.

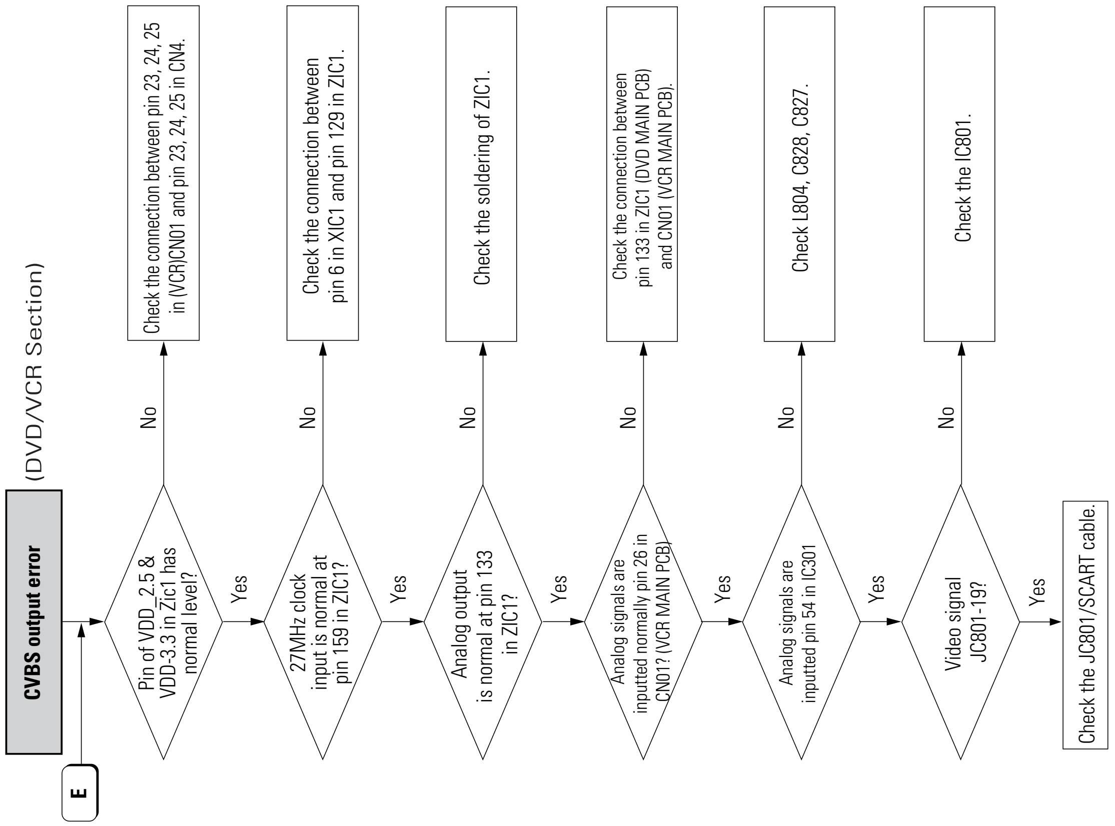

No Tray open/close
(DVD Section)
MIC1-48, 49 is Open ; "L", "L" ? Close ; "H", "H"?
No
Micom (MIC1) error.
Yes
Check DRIC1-35, 36 output at open/close
No
Check DRIC1.
Yes
Check signal line state from DRIC1-35, 36 to tray motor.


CD/VCD/DVD L/R output error
(Mixed Audio output)
(DVD Section)
Normal DATA 0 is input in AIC2-2?
No
Check ZIC1-121 output.
Yes
Analog output of AIC2-7, 8 is normal?
No
Check ZIC1-125 (CD/VCD : 16.9344MHz, DVD ; 18.432MHz)
Yes
AIC4-1, 7 output is normal?
No
Check AIC4 peripheral circuit.
Yes
Base terminal level of AQ3, AQ6 are 'L'
No
Check IC601-50 mute.
Yes
Check JACK1, JK801 Audio out peripheral soldering shot, IC801.


Digital output error
(DVD Section)
Output in ZIC1-127 is normal?
No
Check ZIC1 peripheral circuit.
Yes
Output in DOIC1-6, 8, 10 is normal?
No
Check DOIC1.
Yes
Check JACK1, DOIC2 peripheral soldering shot.


RGB output error
(DVD Section)
DVD SETUP in OSD
DVD OUT is "RGB"?
No
Change the DVD OUT mode to RGB.
Yes
VIC1-24, 21, 18 signal?
(MM1567)
Yes
Check CN4.
No
VIC1-2, 4, 6 signal?
Yes
Check VIC1.
No
Check ZIC1.
(ZIVA 4.1)
Yes
E


S-Video output error
(DVD Section)
DVD SETUP in OSD
DVD OUT is "S-Video"?
No
Change the Alt video mode to S-Video.
Yes
VIC1 2, 4, 6 signal?
(MM1567)
Yes
Check VIC1.
No
Check ZIC1.
(ZIVA4.1)
Yes
E


CVBS output error
(DVD/VCR Section)
E
Pin of VDD_2.5 & VDD-3.3 in Zic1 has normal level?
No
Check the connection between pin 23, 24, 25 in (VCR)CN01 and pin 23, 24, 25 in CN4.
Yes
27MHz clock input is normal at pin 159 in ZIC1?
No
Check the connection between pin 6 in XIC1 and pin 129 in ZIC1.
Yes
Analog output is normal at pin 133 in ZIC1?
No
Check the soldering of ZIC1.
Yes
Analog signals are inputted normally pin 26 in CN01? (VCR MAIN PCB)
No
Check the connection between pin 133 in ZIC1 (DVD MAIN PCB) and CN01 (VCR MAIN PCB).
Yes
Analog signals are inputted pin 54 in IC301
No
Check L804, C828, C827.
Yes
Video signal JC801-19?
No
Check the IC801.
Yes
Check the JC801/SCART cable.

MEMO

6. Exploded View and Parts List

6-1 Cabinet Assembly - 6-2

6-2 VCR Mechanical Parts (Top Side) - 6-4

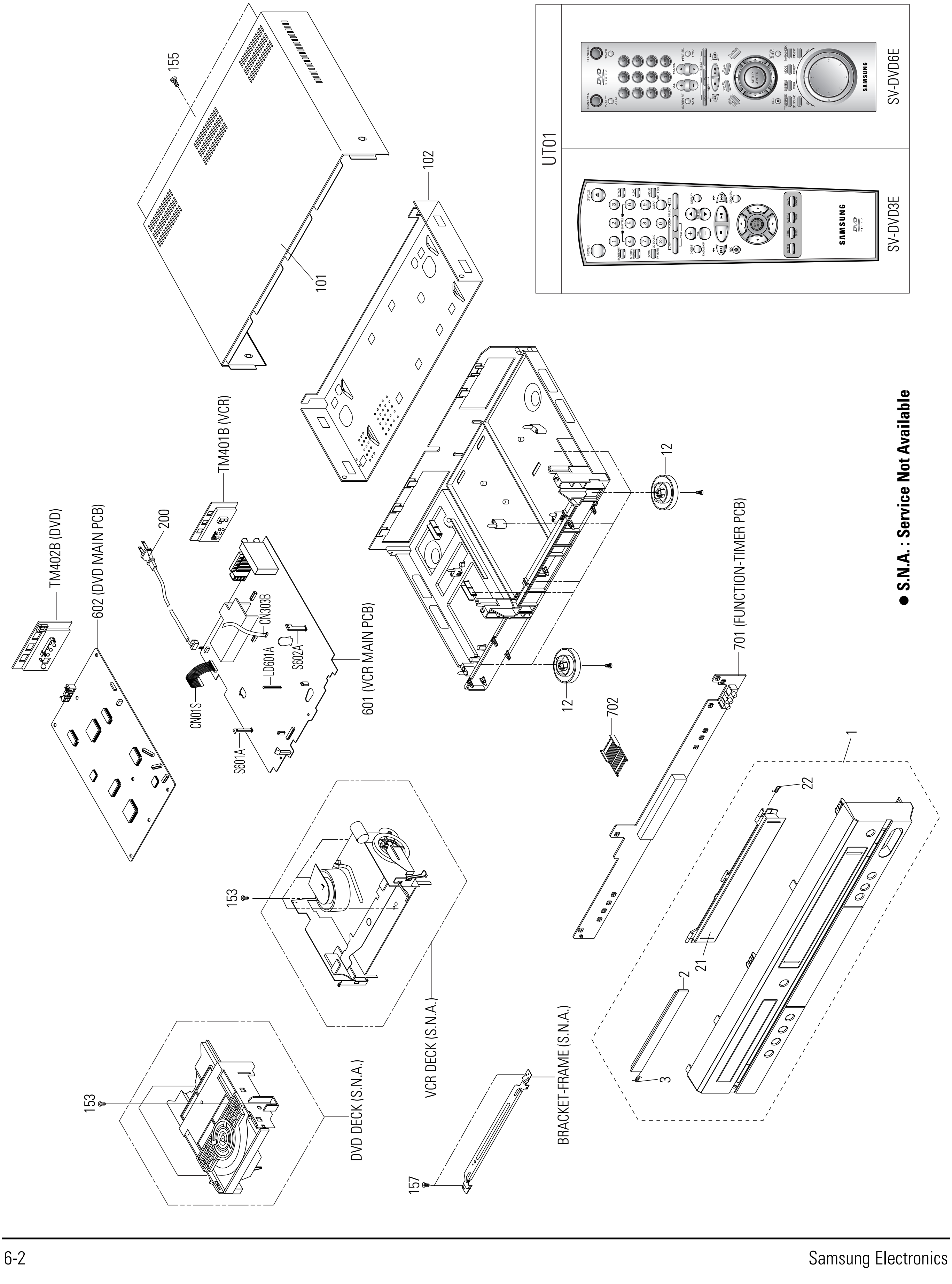
6-3 VCR Mechanical Parts (Bottom Side) - 6-6

6-4 DVD Mechanical Parts - 6-8

Notice

You can search for the updated part code through ITSELF web site.
URL; http://itself.sec.samsung.co.kr

6-1 Cabinet Assembly

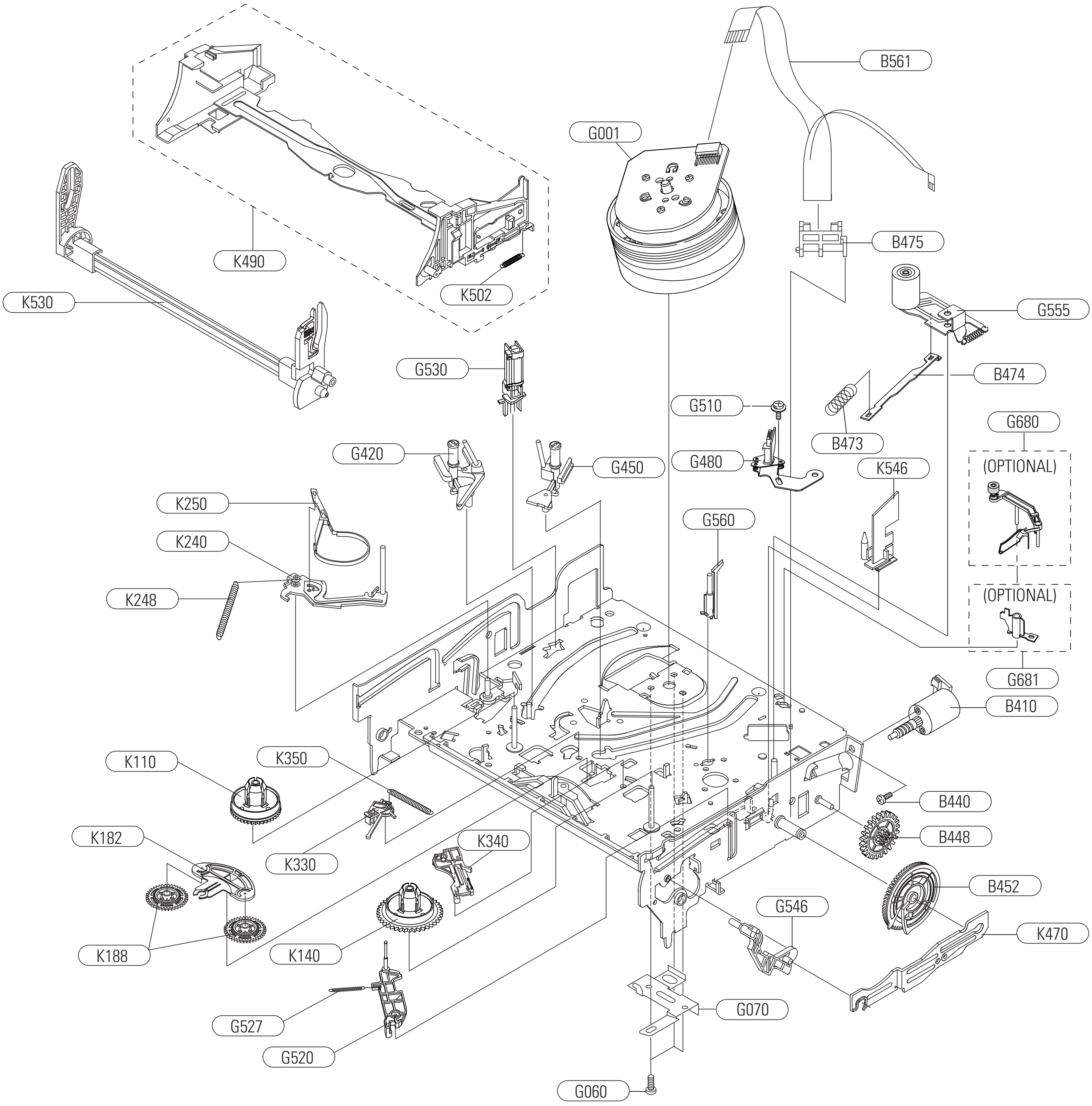

155
101
102
UT01
SV-DVD3E
SV-DVD6E
SAMSUNG
TM402B (DVD)
602 (DVD MAIN PCB)
200
TM401B (VCR)
CN303B
LD601A
S602A
CN01S
S601A
601 (VCR MAIN PCB)
12
12
701 (FUNCTION-TIMER PCB)
702
1
22
21
2
3
153
153
VCR DECK (S.N.A.)
DVD DECK (S.N.A.)
BRACKET-FRAME (S.N.A.)
157

● **S.N.A. : Service Not Available**

Loc. No	Parts No.	Description ; Specification	Remark
1	**Refer to table below**	ASSY-PANEL FRONT;HIPS94HB,SV-DVD3E/XEF,S	
2	AK64-00010B	DOOR-TRAY;SV-DVD6EXEG,ABS 94HB,-,-,-,-,S	
3	AC61-00267A	SPRING ETC-DOOR TRAY;DVD-V5000K,SUS304,-	
12	AC64-42114A	DECORATION-LEG;-,HB,D/GRY,-,-,-,-,SV-900	
21	**Refer to table below**	DOOR-CASSETTE;SV-DVD3E/XEG,ABS 94HB,-,-,	
22	AK61-00014A	SPRING ETC;COMBO,SUS304,-,-,-,-,-,-,-,-,	
101	AC64-00992B	CABINET;SV-DVD3E,PCM T0.6,-,-,-,-,SV-3	
102	AC63-00077B	COVER-BOTTOM;SV-DVD3E,SECC,T0.5,-,430,-,	
153	AC60-12126A	SCREW-BH;-,-,FE,FZY,BH,-,-,4*12,-,-	
155	6003-000275	SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101	
157	AC60-10063A	SCREW-TAPTITE;-,-,L12,ZPC3,+,-,M3,-,SWRC	
200	AC39-10019A	POWER CORD;KKP-419C,H03VVH2-F,VDE/KEMA-K	
601	**Refer to table below**	ASSY PCB-MAIN(VCR);	
602	AH92-01454A	ASSY PCB-MAIN(DVD);DVD-V2000D,DVD,MAIN ,E	
	AK92-00068A	ASSY PCB-MAIN;SV-DVD3E/XEV,DVD,MAIN	CIS Only
701	AC92-01230A	ASSY OPT PCB-TIMER;SV-DVD3E ,TIMER	
702	3711-005008	CONNECTOR-HEADER;NOWALL,20P,1R,1.5MM,STR	
CN01S	3809-001316	CABLE-FLAT;30V,80C,80MM,33P,1.25MM,UL289	
LD601A	AC61-21009A	HOLDER-LED;X-9,POM(M90-44),-,-,-,BLK,-	
S601A	AC61-00229A	HOLDER-SENSOR;SCORPIO2,POM,-,-,-,BLACK,-	
S602A	AC61-00229A	HOLDER-SENSOR;SCORPIO2,POM,-,-,-,BLACK,-	
TM401B	AC61-00295A	CONNECTOR BOARD;COMBO3 PAL,HIPS,T2,-,61,	
TM402B	AK97-00146A	ASSY-CON BOARD;HIPS94HB,SV-DVD6E,BLACK	
UT01	AK59-00002A	REMOCON-ASSY;SV-DVD3E,-,-,-,44,-,-,-,-,S	SV-DVD3E
	AK59-00001B	REMOCON-ASSY;SV-DVD6E,-,-,-,47,-,-,-,-,M	SV-DVD6E

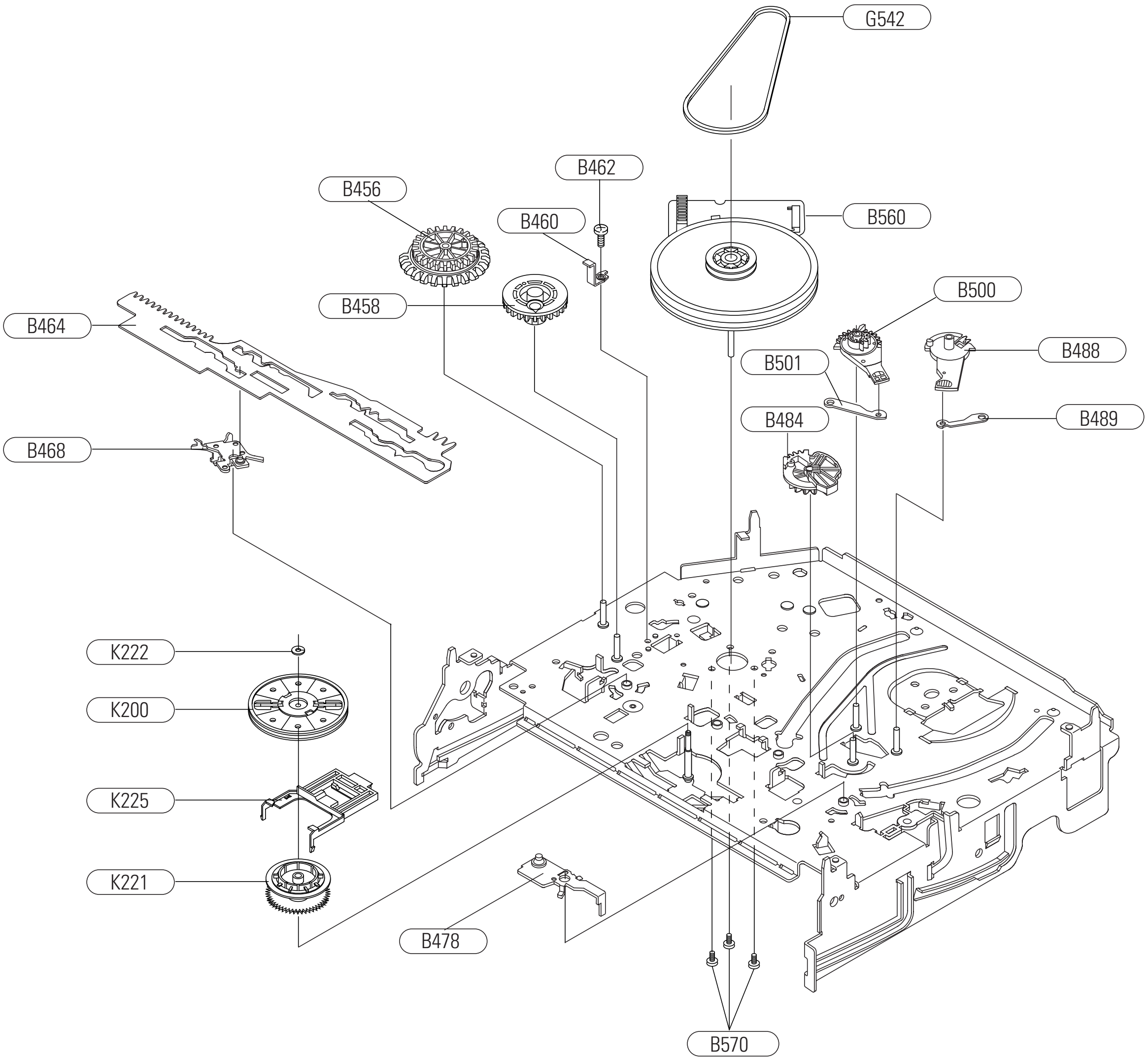
COUTRY	MODEL	1	21	601
France	SV-DVD3E	AK97-00112B	AK64-00006E	AC92-01227A
	SV-DVD6E	AK97-00111B	AK64-00006D	AC92-01227A
U.K	SV-DVD3E	AK97-00112A	AK64-00006D	AC92-01227C
	SV-DVD6E	AK97-00111A	AK64-00006D	AC92-01227C
Germany	SV-DVD3E	AK97-00112A	AK64-00006D	AC92-01227B
	SV-DVD6E	AK97-00111A	AK64-00006D	AC92-01227B
Italy	SV-DVD3E	AK97-00112A	AK64-00006D	AC92-01227B
	SV-DVD6E	AK97-00111A	AK64-00006D	AC92-01227B
Spain	SV-DVD3E	AK97-00112A	AK64-00006D	AC92-01227B
	SV-DVD6E	AK97-00111A	AK64-00006D	AC92-01227B
Swiss	SV-DVD3E	AK97-00112B	AK64-00006E	AC92-01227A
	SV-DVD6E	AK97-00111B	AK64-00006E	AC92-01227A
CIS	SV-DVD3E	AK97-00112F	AK64-00006E	AC92-01227G
	SV-DVD6E	AK97-00111C	AK64-00006E	AC92-01227G
Austria	SV-DVD3E	AK97-00112A	AK64-00006D	AC92-01227B
	SV-DVD6E	AK97-00111A	AK64-00006D	AC92-01227B
Netherlans	SV-DVD3E	AK97-00112A	AK64-00006D	AC92-01227B
	SV-DVD6E	AK97-00111A	AK64-00006D	AC92-01227B
Portugal	SV-DVD3E	AK97-00112A	AK64-00006D	AC92-01227B
	SV-DVD6E	AK97-00111A	AK64-00006D	AC92-01227B
Pan-Scan	SV-DVD3E	AK97-00112A	AK64-00006D	AC92-01227B
	SV-DVD6E	AK97-00111A	AK64-00006D	AC92-01227B
Greece/Hungary/Czech	SV-DVD3E	AK97-00112A	AK64-00006D	AC92-01227F
Macedonia/Poland/Croatia	SV-DVD6E	AK97-00111A	AK64-00006D	AC92-01227F

6-2 VCR Mechanical Parts (Top Side)


B561
G001
B475
K490
K530
K502
G555
G530
B474
G510
G680
B473
G420
G450
G480
K546
(OPTIONAL)
K250
G560
K240
(OPTIONAL)
K248
G681
B410
K110
K350
B440
K182
K340
B448
K330
B452
G546
K470
K188
K140
G070
G527
G520
G060

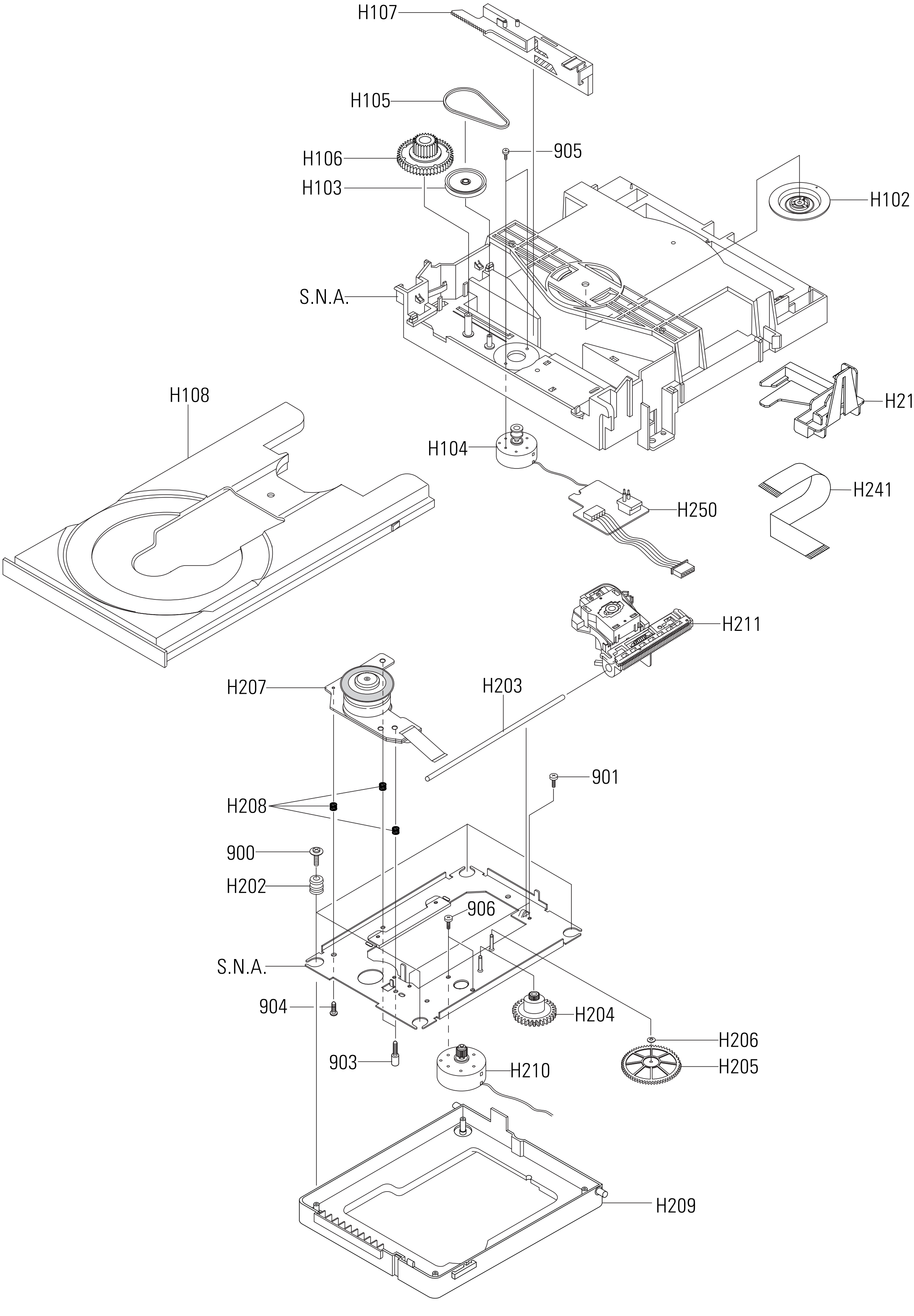
Loc. No	Parts No.	Description ; Specification	Remark
B410	AC31-00018A	MOTOR-LOADING ASSY;-,SCORPIO2(TS-10A),-,	
B440	AC60-10515A	SCREW-MACHINE;-,-,M3,L3,PH,+,-,-,ZPC,-	
B448	AC66-00008A	GEAR-WORM WHEEL;TS-10,POM,0.8,40,-,NAT,3	
B452	AC66-00011A	GEAR-FL CAM;TS-10,POM,0.8,59,-,BLK,48.48	
B473	AC61-00105A	SPRING ETC-PINCH DRIVE;TS-10,SUS304-WPB,	
B474	AC61-30180A	PLATE-JOINT;X-9,SECC20/20,T0.8,-,-,-,-	
B475	AC47-00003A	DAMPER-CAPSTAN;SCORPIO2,POM, NATUAL,-,-,	
B561	3809-001270	CABLE-FLAT;30V,80C,140MM,10P,1.25MM,UL28	
G001	AC97-01756A	ASSY-CYLINDER;6S-SEM'S HEAD,CTS10A-SEM,P	Frace Model Only
	AC97-01754A	ASSY-CYLINDER;6P-SEM'S HEAD,CTS10A-SEM,P	Other Models
G060	6006-001092	SCREW-ASS'Y MACH;WS,PH,+,M3.0,L6.0,ZPC(Y	
G070	AC61-00161A	PLATE-GROUND DECK;TS-10,SPTE,T0.3,-,-,-,	
G420	AC66-80142A	SLIDER-SUPPLY ASSY;X-9,X-9(TS),-,-,-,-,-	
G450	AC66-80141A	SLIDER-TAKE UP ASSY;X-9,X-9(TS),-,-,-,-,	
G480	AC97-01655A	ASSY-HEAD ACE;-,SCORPIO2(TS-10A),HVMXA11	
G510	6006-001075	SCREW-ASS'Y TAPT;WSP,PH,+,M2.6,L5.0,ZPC(	
G520	AC66-00033A	LEVER-#9 GUIDE ASS'Y;TS-10,-,-,-,-,-,-,-	
G527	AC61-60553A	SPRING ETC-GUIDE 9;X-9,SUS304-WPB,0.25,-	
G530	AC33-00007A	HEAD-FE;-,-,HVFHPOO43A,-,-	
G546	AC66-00005A	LEVER-FL DOOR;TS-10,POM,-,-,-,-,NAT,-	
G555	AC66-00032A	LEVER-UNIT PINCH ASS'Y;TS-10,-,-,-,-,-,-	
G680	AC66-00046A	LEVER-HEAD CLEANER ASS'Y;TS-10,POM+URETH	(OPTIONAL)
G681	AC61-50686A	SLEEVE-HEAD CLEANER;-,POM,-,-,-,-,-,-,TS	(OPTIONAL)
K110	AC66-10267A	REEL-DISK S;X-9,POM,-,-,-,-,-,-	
K140	AC66-10268A	REEL-DISK T;X-9,POM,-,-,-,-,-,-	
K182	AC66-30524A	LEVER-IDLER;-,POM,-,-,-,-,-,-	
K188	AC66-00039A	GEAR-IDLE;TS-10,PET K3372,0.5,-,-,NTR,28	
K240	AC66-00035A	LEVER-TENSION ASS'Y;TS-10,SECC E20/20+SU	
K248	AC61-00107A	SPRING ETC-TENSION LEVER;TS-10,SUS304-WP	
K250	AC69-00104A	BAND-BRAKE ASS'Y;TS-10,-,-,-,-,-,-	
K330	AC66-30550A	LEVER-S.BRAKE ASSY;-,POM+SUS,-,-,-,X-9	
K340	AC66-30549A	LEVER-T.BRAKE ASSY;-,POM+SUS,-,-,-,X-9	
K350	AC61-00106A	SPRING ETC-BRAKE;TS-10,SUS304-WPB,-,-,-,	
K470	AC66-00020A	SLIDER-FL DRIVE;TS-10,SECC E20/20,1.0,-,	
K490	AC61-00120A	HOLDER-FL CASS. ASS'Y;TS-10,-,-,-,-,-,-	
K502	AC61-60561A	SPRING ETC-FL.LEVER-LR;X-9,SUS304 WPB,OD	
K530	AC66-00034A	LEVER-FL ARM ASS'Y;TS-10,-,-,-,-,-,-,-	
K546	AC61-50658A	GUIDE-CASS. DOOR;X-9,POM,-,-,-,NTR	

6-3 VCR Mechanical Parts (Bottom Side)


G542
B462
B456
B560
B460
B500
B458
B464
B501
B488
B484
B489
B468
K222
K200
K225
K221
B478
B570

Loc. No	Parts No.	Description ; Specification	Remark
B456	AC66-00009A	GEAR-JOINT 1;TS-10,POM,1.5,17.5(22),-,NA	
B458	AC66-00012A	GEAR-JOINT 2;TS-10,POM,1.0,23,-,BLK,24.6	
B460	AC61-00090A	BRACKET-GEAR;TS-10,SECC E20/20,0.8,-,-,-	
B462	AC60-10517A	SCREW-TAP TITE;-,-,M2.6,L5,PH,+,-,-,ZPC,	
B464	AC66-00019A	SLIDER-CAM;TS-10,SECC E20/20,1.2,-,-,-,-	
B468	AC66-00017A	LEVER-PINCH DRIVE;TS-10,SECC E20/20,1.0	
B478	AC66-00016A	LEVER-TENSION DRIVE;TS-10,SECC E20/20,1	
B484	AC66-00030A	GEAR-LOADING DR. ASS'Y;TS-10,POM+SWPB,-,	
B488	AC66-00023A	LEVER-S LOADING;TS-10,POM,-,-,-,-,NAT,-	
B489	AC66-00021A	LINK-LOADING S;TS-10,SECC E20/20,0.8,-,-	
B500	AC66-00024A	LEVER-T LOADING;TS-10,POM,-,-,-,-,NAT,-	
B501	AC66-00022A	LINK-LOADING T;TS-10,SECC E20/20,0.8,-,-	
B560	AC31-00016A	MOTOR-CAPSTAN;F2QVB05,SCORPIO2(TS-10A),-	
B570	AC60-10514A	SCREW-CAPSTAN;-,-,M2.6,L6,PH,+,-,-,-,-	
G542	AC66-60051A	BELT-PULLEY;-,5CM-70,2 * 2,-,71.3,-,X-9	
K200	AC61-21012A	HOLDER-CLUTCH ASSY;X-9,-,-,-,-,-,-	
K221	AC66-20581A	GEAR-CENTER ASSY;-,POM,M=O.5,-,HIGHT T.,	
K222	AC60-30306A	WASHER-SLIT;-,-,ID2.1,OD5.0,T0.5,-,POLYS	
K225	AC66-00006A	LEVER-UP DOWN;TS-10,POM,-,-,-,-,NAT,-	

6-4 DVD Mechanical Parts


H107
H105
H106
905
H103
H102
S.N.A.
H108
H212
H104
H241
H250
H211
H207
H203
901
H208
900
H202
906
S.N.A.
904
H204
H206
903
H210
H205
H209

Loc. No	Parts No.	Description ; Specification	Remark
900	6003-001157	SCREW-TAPTITE;PWH,+,B,M2,L6,ZPC(YEL),SWR	
901	6001-001522	SCREW-MACHINE;FH,+,M2.6,L7,ZPC(YEL),SWRC	
903	6009-001245	SCREW-SPECIAL;SWRCH18A,NYLOCK,SOCKET,HEX	
904	6001-001466	SCREW-MACHINE;BH,+,M2,L6,ZPC(BLK),SWRCH1	
905	6001-001257	SCREW-MACHINE;PWH,+,M1.7,L3,ZPC(YEL),SWR	
906	AH60-00010A	SCREW-MACHINE-MOTOR;-,+,SWCH18AK,M1.7,L2	
H102	AH66-00111B	CLAMPER-ASSY;DP-5,POM+MAGNET,-,-,-,-,-,-	
H103	AH66-00123A	PULLEY-GEAR;DP-7,POM M90-44,-,-,-,-,-,-	
H104	AH31-00024A	MOTOR-LOAD ASSY;SM-2412L2,DP-7,-,-,-,-,-	
H105	6602-001076	BELT-RECTANGULAR;CR,T1.2,4.3%,1.2X25.1,B	
H106	AH66-00124A	GEAR-TRAY;DP-7,POM,M90-44,-,-,-,-,-,-,-	
H107	AH66-00125A	SLIDER-HOUSING;DP-7,POM,-,-,-,-,-	
H108	AH63-00422A	TRAY-DISC;-,ABS,-,-,-,-,BLK,DP-7S	
H202	AH73-00023A	RUBBER-INSULATOR;BUTYL RUBBER,-,DP-3,¡¯? 4.000	
H203	AH61-50327A	SHAFT-P/U;DP-3,SUS420J2,L84.7,OD3,-,-,-	
H204	AH66-00075A	GEAR-FEED A;-,POM M90-44,-,-,-,-,-,-,-,-	
H205	AH66-00170A	GEAR-FEED B;DP-7S,POM M90-44,0.5,14,-,-,	
H206	AC60-30306A	WASHER-SLIT;-,-,ID2.1,OD5.0,T0.5,-,POLYS	
H207	AH31-00032A	MOTOR-SPINDLE ASSY;RSM-2610F1,DP-7S,-,-,	
H208	AH61-00403A	SPRING ETC-SPINDLE;DP-5,SWPB,PI4.9,-,-,-	
H209	AH61-00513A	CHASSIS-SUB;DP-7,ABS(SR-0320),-,-,-,-,-,	
H210	AH31-00016A	MOTOR-FEED ASSY;-,DP-5,-,-	
H211	AH97-00900A	ASSY-PICK-UP;-,SOH-DS2,ASSY-PICK-UP	
H212	AH61-00891A	HOLDER-FFC;DP-7S,PP,1,-,-,NTR,-	
H241	3809-001303	CABLE-FLAT;30V,80C,230MM,24P,1MM,UL2896	
H250	AH92-00900A	ASSY-HOUSING PCB;DVD-M101,MILLENO DECK(B	

MEMO

7. Electrical Parts List

Loc.No	Part No	Description ; Specification	Remark
601	**AC92-01227A**	**ASSY PCB-MAIN;**	
S.M.P.S. PARTS			
BD1S01	AC27-92001M	COIL-INDUCTOR;RH3.5X6.5RS,BEAD(RADIAL),-	
BD1SS2	AC27-92001M	COIL-INDUCTOR;RH3.5X6.5RS,BEAD(RADIAL),-	
BD1SS3	AC27-92001M	COIL-INDUCTOR;RH3.5X6.5RS,BEAD(RADIAL),-	
BD1SS4	AC27-92001M	COIL-INDUCTOR;RH3.5X6.5RS,BEAD(RADIAL),-	
C1SS01	2305-001021	C-FILM,MPEF;100nF,20%,275V,TP,17.5x7x13.	⚠
C1SS02	2305-001021	C-FILM,MPEF;100nF,20%,275V,TP,17.5x7x13.	⚠
C1SS03	2201-000828	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,15x	⚠
C1SS04	2201-000828	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,15x	⚠
C1SS05	2201-002044	C-CERAMIC,DISC;0.1nF,10%,400V,Y5P,TP,8.5	⚠
C1SS06	2201-002044	C-CERAMIC,DISC;0.1nF,10%,400V,Y5P,TP,8.5	⚠
C1SS10	2401-003302	C-AL;47uF,20%,400V,GP,TP,18X31.5,7.	
	2401-001682	C-AL;82uF,20%,400V,GP,BK,22X25,10	CIS MODEL ONLY
C1SS11	2305-001029	C-FILM,MPEF;10nF,10%,630V,TP,12x9x12.5,5	
C1SS12	2401-001200	C-AL;33UF,20%,50V,WT,TP,6.3X11,2.5	
C1SS13	2201-000376	C-CERAMIC,DISC;0.22nF,5%,50V,SL,TP,6.3x3	
C1SS14	2201-000129	C-CERAMIC,DISC;0.1nF,10%,1kV,Y5P,TP,7x4,	
C1SS15	2401-003480	C-AL;1000UF,20%,10V,LZ,TP,10X16MM,5	
C1SS16	2401-001479	C-AL;470uF,20%,10V,GP,TP,-,-	
C1SS17	2401-001992	C-AL;2200UF,20%,10V,WT,TP,10X20MM,5	
C1SS18	2401-001992	C-AL;2200UF,20%,10V,WT,TP,10X20MM,5	
C1SS19	2401-000385	C-AL;10uF,20%,100V,GP,TP,6.3x11,5	
C1SS20	2201-000812	C-CERAMIC,DISC;2.2nF,20%,400V,Y5U,BK,12.	
C1SS21	2401-001126	C-AL;330uF,20%,25V,WT,TP,10x12.5,5	
C1SS22	2401-003477	C-AL;330UF,20%,25V,LZ,TP,10X12.5MM,	
C1SS23	2401-003137	C-AL;330UF,20%,50V,WT,TP,10X16MM,5	
C1SS24	2401-001479	C-AL;470uF,20%,10V,GP,TP,-,-	
C1SS25	2401-000118	C-AL;1000uF,20%,10V,GP,TP,10x12.5,5	
C1SS26	2401-001126	C-AL;330uF,20%,25V,WT,TP,10x12.5,5	
C1SS27	2301-000129	C-FILM,PEF;100nF,5%,50V,TP,10X9X4.3X5,5m	
CN01	3708-000270	CONNECTOR-FPC/FFC/PIC;33P,1.25mm,STRAIGH	
CN1S01	3711-000178	CONNECTOR-HEADER;1WALL,2P,1R,3.96mm,STRA	
D1SS01	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS02	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS03	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS04	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS05	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS10	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
D1SS11	0402-000012	DIODE-RECTIFIER;UF4007,1KV,1A,DO-41,TP	
D1SS12	0404-001097	DIODE-SCHOTTKY;SG45,45V,7500mA,TO-220A,B	
D1SS13	0404-001097	DIODE-SCHOTTKY;SG45,45V,7500mA,TO-220A,B	
D1SS14	0404-001097	DIODE-SCHOTTKY;SG45,45V,7500mA,TO-220A,B	
D1SS15	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
D1SS16	0402-001194	DIODE-RECTIFIER;UG2D,200V,2A,DO-204AC,TP	
D1SS17	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
D1SS18	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
D1SS19	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
F1SS01	3601-001123	FUSE-CARTRIDGE;250V,1.6A,TIME-LAG,CERAMI	⚠
IC1S01	1203-001803	IC-PWM CONTROLLER;STR-F6552,TO-220,5P,-,	
IC1S02	0604-000186	PHOTO-COUPLER;TR,-,200mW,DIP-4,ST	
L1SS01	AC29-00002A	FILTER LINE NOISE;-,30mH,-,-,BLF-2116	⚠
L1SS02	AC29-30050B	FILTER-LINE NOISE;-,400uH,-,AC250V,TR12.	⚠
L1SS03	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
L1SS04	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
L1SS05	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
PT1S01	AC26-00001S	TRANS SWITCHING;EER3530,COMBO3,-,100~240	⚠
R1SS10	2006-000262	R-CEMENT;2.7ohm,10%,2W,CB,TP,7.5x11x20.	
R1SS11	2001-000113	R-CARBON;18KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1SS12	2001-000113	R-CARBON;18KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1SS13	2001-000113	R-CARBON;18KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1SS14	2001-000113	R-CARBON;18KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1SS15	2001-000096	R-CARBON(S);1MOHM,5%,1/2W,AA,TP,2.4X6.4M	
R1SS16	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R1SS17	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SS18	2006-000273	R-CEMENT;27KOHM,5%,2W,CA,BK,6.4X6.5X18M	
R1SS19	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SS20	2003-000105	R-METAL OXIDE;0.33ohm,5%,2W,AD,TP,6x16mm	
R1SS21	2006-000273	R-CEMENT;27KOHM,5%,2W,CA,BK,6.4X6.5X18M	
R1SS31	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SS32	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SS33	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SS34	2004-000869	R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
R1SS35	2004-000459	R-METAL;2.2Kohm,1%,1/8W,AA,TP,1.8x3.2m	
R1SS36	2008-001033	R-FUSIBLE(S);10ohm,5%,2W,AF,TP,3.9x10mm	
VA01	1405-001026	VARISTOR;470V,600A,9x7mm,TP	
POWER DRIVE PARTS			
C1P01A	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C1P102	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C1P103	2401-000463	C-AL;10uF,20%,35V,GP,-,5x5,2mm	
C1P104	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C1P105	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C1P106	2401-000463	C-AL;10uF,20%,35V,GP,-,5x5,2mm	
C1P107	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C1P109	2401-000463	C-AL;10uF,20%,35V,GP,-,5x5,2mm	
C1P110	2401-000463	C-AL;10uF,20%,35V,GP,-,5x5,2mm	
C1P111	2401-000463	C-AL;10uF,20%,35V,GP,-,5x5,2mm	
C1P112	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C1P113	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C1P114	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C1P115	2401-000463	C-AL;10uF,20%,35V,GP,-,5x5,2mm	
C1P116	2401-003122	C-AL;4.7uF,20%,50V,LL,TP,4X7,1.5	
D1P103	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D1P104	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D1P105	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D1P107	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D1P108	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
Q1P101	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P102	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K/4.7K,T	
Q1P103	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q1P104	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P105	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P106	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P107	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P108	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K/4.7K,T	
Q1P109	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q1P110	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P111	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
R1P101	2001-000855	R-CARBON;560OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1P103	2001-000362	R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1P104	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R1P105	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1P109	2001-000362	R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1P110	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R1P111	2001-000062	R-CARBON;470OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1P112	2001-000302	R-CARBON;10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1P120	2001-000855	R-CARBON;560OHM,5%,1/4W,AA,TP,2.4X6.4MM	
ZD1P02	0403-001211	DIODE-ZENER;MTZJ12B,11.44-12.03V,500MW,D	
ZD1P03	0403-000720	DIODE-ZENER;MTZJ9.1B,9.1V,8.57-9.01V,500	
ZD1P04	0403-000717	DIODE-ZENER;MTZJ5.1B,5.1V,4.94-5.2V,500m	
ZD1P05	0403-001211	DIODE-ZENER;MTZJ12B,11.44-12.03V,500MW,D	
ZD1P06	0403-000717	DIODE-ZENER;MTZJ5.1B,5.1V,4.94-5.2V,500m	

Loc.No	Part No	Description ; Specification	Remark
ZD1P1A	0403-001211	DIODE-ZENER;MTZJ12B,11.44-12.03V,500MW,D	

SYSTEM CONTROL/SEVO PARTS

Loc.No	Part No	Description ; Specification	Remark
C601	2203-000609	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012	
C602	2401-002095	C-AL;47uF,20%,25V,GP,TP,6.3x5,5	
C605	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C606	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C607	2401-000118	C-AL;1000uF,20%,10V,GP,TP,10x12.5,5	
C610	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C618	2401-000360	C-AL;100uF,20%,50V,GP,TP,8x11.5,5	
C619	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C620	2401-002095	C-AL;47uF,20%,25V,GP,TP,6.3x5,5	
C621	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C623	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C626	2203-000634	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,201	
C627	2203-000634	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,201	
C632	2203-000802	C-CERAMIC,CHIP;33nF,10%,50V,X7R,TP,2012	
C633	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C634	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C635	2202-000183	C-CERAMIC,MLC-AXIAL;2.2NF,20%,16V,Y5R,TP	
C636	2202-000183	C-CERAMIC,MLC-AXIAL;2.2NF,20%,16V,Y5R,TP	
C637	2203-000938	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,2012	
C638	2401-002196	C-AL;4.7UF,20,25V,GP,TP,4X5,5MM,-	
C639	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012	
C640	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C641	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C642	2401-002095	C-AL;47uF,20%,25V,GP,TP,6.3x5,5	
C645	2203-000361	C-CERAMIC,CHIP;0.15nF,5%,50V,NP0,TP,2012	
C646	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C659	2203-001137	C-CERAMIC,CHIP;68nF,+80-20%,50V,Y5V,TP,2	
C661	2203-000989	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012	
C688	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C691	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C695	2203-000361	C-CERAMIC,CHIP;0.15nF,5%,50V,NP0,TP,2012	
C696	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
CN603	3710-001146	CONNECTOR-SOCKET;20P,1R,1.5mm,ANGLE,SN	
CN604	3711-004833	CONNECTOR-HEADER;BOX,12P,2R,2MM,STRAIGHT	
D603	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D620	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D688	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D692	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
IC601	AC09-00344A	IC MICOM;N128-A76-3BA,SV-DVD3E-01,100PI	
IC604	AC14-12009W	IC-RESET;PST572K,TO-92,R59-1766 2.5V	
IC605	1103-001150	IC-EEPROM;524C80D81,8KBit,DIP,8P,300MIL,	
L603	2702-000106	INDUCTOR-RADIAL;100uH,10%,6.2x7.4mm	
L605	2701-000002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	
LD601	0601-000517	LED-IR;RECTANGULA,4x6.0mm,75mW,6V,950	
PT601	0604-001206	PHOTO-INTERRUPTER;TR,-,150mW,CY5894102,B	
PT602	0604-001206	PHOTO-INTERRUPTER;TR,-,150mW,CY5894102,B	
Q601	0504-000119	TR-DIGITAL;KSR1004,NPN,300MW,47K/47K,TO-	
Q602	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
R608	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	
R609	2001-000864	R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R614	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R615	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R617	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	
R630	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R631	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
R640	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R641	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R642	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R644	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R647	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R651	2007-000001	R-CHIP;68KOHM,5%,1/10W,DA,TP,2012	
R660	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R661	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R666	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R667	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R668	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012	
R669	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012	
R670	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
R671	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
R672	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
R673	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R674	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R675	2001-000032	R-CARBON;180OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R676	2007-000738	R-CHIP;30KOHM,5%,1/10W,DA,TP,2012	
R677	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R678	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
R679	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	
R682	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
R685	2001-000812	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R688	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R691	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	
R693	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R694	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R698	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R699	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
S601	0603-001011	PHOTO TR;NPN,35V,6V,50mA,75mW,BK	
S602	0603-001011	PHOTO TR;NPN,35V,6V,50mA,75mW,BK	
SW601	AC34-20100A	SWITCH-MODE;-,-,X-9,-	
SW602	AC34-20100B	SWITCH-REC;-,-,X-9,-	
W586	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
W602	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
W676	2701-000238	INDUCTOR-AXIAL;1.8uH,10%,2.5x3.4mm	
XT602	2801-003139	CRYSTAL-UNIT;8MHz,50ppm,28-AAA,22pF,80oh	

A/V PARTS

Loc.No	Part No	Description ; Specification	Remark
C315	2203-000989	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012	
C317	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C318	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C319	2203-000844	C-CERAMIC,CHIP;39nF,10%,50V,X7R,TP,2012,	
C320	2203-000989	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012	
C321	2203-000609	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012	
C322	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C324	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C325	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C326	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C327	2203-001214	C-CERAMIC,CHIP;8.2nF,10%,50V,X7R,TP,2012	
C328	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C329	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C330	2203-000989	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012	
C331	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C332	2202-002055	C-CERAMIC,MLC-AXIAL;47nF,+80-20%,50V,Y5V	
C333	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C334	2203-000989	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012	
C335	2203-000925	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP,	
C336	2203-000989	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012	
C337	2203-000925	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP,	
C338	2202-000807	C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V	
C339	2401-000407	C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5	
C340	2401-001226	C-AL;4.7uF,20%,16V,BP,TP,4x7,5mm	
C341	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C342	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C343	2203-000476	C-CERAMIC,CHIP;1000nF,+80-20%,16V,Y5V,TP	
C344	2203-000321	C-CERAMIC,CHIP;0.12nF,5%,50V,SL,TP,2012	
C345	2202-000806	C-CERAMIC,MLC-AXIAL;220pF,10%,50V,Y5P,TP	
C347	2203-000476	C-CERAMIC,CHIP;1000nF,+80-20%,16V,Y5V,TP	
C348	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C349	2203-000476	C-CERAMIC,CHIP;1000nF,+80-20%,16V,Y5V,TP	
C350	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C351	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	

Loc.No	Part No	Description ; Specification	Remark
C352	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C353	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C354	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C355	2202-002055	C-CERAMIC,MLC-AXIAL;47nF,+80-20%,50V,Y5V	
C372	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C380	2202-000807	C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V	
C384	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C385	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C393	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C395	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C396	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
C397A	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,2012	
C398	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP	
C3A01	2401-003122	C-AL;4.7uF,20%,50V,LL,TP,4X7,1.5	
C3A02	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5,5	
C3A08	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C3A09	2203-001105	C-CERAMIC,CHIP;6.8nF,10%,50V,X7R,TP,2012	
C3A10	2203-001214	C-CERAMIC,CHIP;8.2nF,10%,50V,X7R,TP,2012	
C3A11	2301-000176	C-FILM,PEF;18nF,5%,100V,TP,10X9X4.3X5,5m	
C3A12	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C3A14	2203-000938	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,2012	
C3A15	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C3A16	2401-003122	C-AL;4.7uF,20%,50V,LL,TP,4X7,1.5	
C3A17	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C3A18	2203-001128	C-CERAMIC,CHIP;0.68nF,10%,50V,X7R,TP,201	
C3A21	2203-000170	C-CERAMIC,CHIP;1.8nF,10%,50V,X7R,TP,2012	
C3A23	2401-002069	C-AL;33uF,20%,16V,GP,TP,6.3x5,5	
C3A24	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C3A29	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C3A30	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C3A40	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C3A41	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C3D01	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5	
C3D02	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5,5	
C3D03	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5,5	
C3D04	2203-000938	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,2012	
C3Q1	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C3Q2	2203-000818	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP,201	
C3Q3	2203-001088	C-CERAMIC,CHIP;0.005nF,0.25pF,50V,NP0,TP	
C3Q4	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
CN301	3708-000391	CONNECTOR-FPC/FFC/PIC;10P,1.25mm,STRAIGH	
CN3A01	3708-001165	CONNECTOR-FPC/FFC/PIC;6P,1.25mm,STRAIGHT	
CN3A01	3809-001206	CABLE-FLAT;30V,-20to+80C,140mm,6P,1.25mm	
CN3A02	3710-001648	CONNECTOR-SOCKET;2P,1R,2.5mm,STRAIGHT,SN	
D301	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D302	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
FL3A01	2702-000166	INDUCTOR-RADIAL;47uH,5%,6x6.4mm	
FL3D01	2702-000166	INDUCTOR-RADIAL;47uH,5%,6x6.4mm	
FR10	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR12	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
IC1S03	AC14-12006D	IC;KA431Z,TO-92,TAPING	
IC301	1204-001922	IC-VIDEO PROCESS;LA71750M,QFP,100P,-,PLA	
L302	2702-000106	INDUCTOR-RADIAL;100uH,10%,6.2x7.4mm	
L304	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
L370	2702-000106	INDUCTOR-RADIAL;100uH,10%,6.2x7.4mm	
L3A01	2702-000120	INDUCTOR-RADIAL;15mH,5%,6.2x7.4mm	
L3A02	2702-000106	INDUCTOR-RADIAL;100uH,10%,6.2x7.4mm	
L3A03	2701-000002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	
L3A50	2702-000119	INDUCTOR-RADIAL;150uH,5%,6x6.4mm	
L3D01	2701-000002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	
L3Q1	2701-000206	INDUCTOR-AXIAL;56uH,5%,2.4x3.4mm	
L3Q2	2701-000131	INDUCTOR-AXIAL;15uH,5%,2.5x3.4mm	
Q302	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q305	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K/4.7K,T	
Q350	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q351	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	

Loc.No	Part No	Description ; Specification	Remark
Q3A01	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q3A02	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q3A03	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400mW,T0-9	
Q3A04	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400mW,T0-9	
Q3A05	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400mW,T0-9	
Q3A06	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q3D01	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400mW,T0-9	
Q3D02	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q3D07	0504-000119	TR-DIGITAL;KSR1004,NPN,300MW,47K/47K,TO-	
Q3Q1	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q3Q2	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q3Q3	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q3Q4	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q3Q6	0504-000119	TR-DIGITAL;KSR1004,NPN,300MW,47K/47K,TO-	
Q3Q7	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
R315	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012	
R316	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
R320	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R321	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R322	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R323	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R324	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012	
R325	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R326	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R327	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
R328	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012	
R329	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	
R330	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
R331	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012	
R333	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	
R334	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012	
R335	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R350	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012	
R360	2001-000773	R-CARBON;470KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R370	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
R371	2001-000855	R-CARBON;560OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R372	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
R373	2007-000546	R-CHIP;20KOHM,5%,1/10W,DA,TP,2012	
R374	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R380	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
R3A01	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A04	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012	
R3A05	2007-000615	R-CHIP;24KOHM,5%,1/10W,DA,TP,2012	
R3A06	2007-000449	R-CHIP;180OHM,5%,1/10W,DA,TP,2012	
R3A07	2007-000757	R-CHIP;330KOHM,5%,1/10W,DA,TP,2012	
R3A08	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	
R3A09	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
R3A11	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
R3A12	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
R3A13	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
R3A14	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A16	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R3A17	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
R3A18	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
R3A23	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A24	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
R3A25	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A26	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A28	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012	
R3A50	2007-000964	R-CHIP;5.1KOHM,5%,1/10W,DA,TP,2012	
R3A51	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R3A60	2001-000605	R-CARBON;3.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3D01	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
R3D02	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
R3D03	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
R3D04	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc.No	Part No	Description ; Specification	Remark
R3Q1	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012	
R3Q12	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3Q2	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R3Q3	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012	
R3Q4	2007-001055	R-CHIP;6.2KOHM,5%,1/10W,DA,TP,2012	
R3Q5	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012	
R3Q6	2007-000258	R-CHIP;1.6KOHM,5%,1/10W,DA,TP,2012	
R3Q7	2007-000844	R-CHIP;3KOHM,5%,1/10W,DA,TP,2012	
R3Q8	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012	
R3Q9	2007-001155	R-CHIP;750OHM,5%,1/10W,DA,TP,2012	
XT301	2801-001397	CRYSTAL-UNIT;4.433619MHz,20ppm,28-AAA,S,	

TM-BLOCK

Loc.No	Part No	Description ; Specification	Remark
C401	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C402	2202-000807	C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V	
C403	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C404	2401-001085	C-AL;330nF,20%,50V,GP,-,5x9,2mm	
C405	2401-003046	C-AL;47uF,20%,50V,WT,TP,6.3x11,2.5	
C406	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C407	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C408	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C409	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C410	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
D401	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
L402	2701-000002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	
R401	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R402	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R403	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R404	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R406	2001-000837	R-CARBON;51KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R408	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
TM401	AC40-00001K	TM BLOCK;TCPL0601PD11A,G/L-Splitter,TCP	
ZD401	0403-000390	DIODE-ZENER;UZP33B,33V,31.4-34.6V,1W,DO-	

HI-FI/MTS BLOCK

Loc.No	Part No	Description ; Specification	Remark
C501	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C502	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C503	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5,5	
C504	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C505	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C506	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C507	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5,5	
C508	2203-000891	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012	
C510	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C511	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C513	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C517	2203-000891	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012	
C518	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5,5	
C519	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C520	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C521	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C522	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C523	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C524	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C525	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C526	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C527	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C529	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C530	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C535	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C536	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C537	2401-000665	C-AL;2.2uF,20%,50V,GP,TP,3.5x5,5	
C538	2401-000665	C-AL;2.2uF,20%,50V,GP,TP,3.5x5,5	
C539	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C540	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C541	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C542	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
D501	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
IC501	1204-001920	IC-AUDIO PROCESSOR;LA72646M,QFP,80P,14X1	
R501	2001-000766	R-CARBON;43KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R502	2007-001055	R-CHIP;6.2KOHM,5%,1/10W,DA,TP,2012	
R503	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012	
R505	2001-000766	R-CARBON;43KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R506	2007-001055	R-CHIP;6.2KOHM,5%,1/10W,DA,TP,2012	
R507	2001-000766	R-CARBON;43KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R508	2007-001055	R-CHIP;6.2KOHM,5%,1/10W,DA,TP,2012	
R509	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
R510	2007-000003	R-CHIP;43KOHM,5%,1/10W,DA,TP,2012	
R511	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R517	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
R518	2007-000003	R-CHIP;43KOHM,5%,1/10W,DA,TP,2012	
R519	2007-001055	R-CHIP;6.2KOHM,5%,1/10W,DA,TP,2012	
R520	2001-000766	R-CARBON;43KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R521	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
R522	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
R533	2007-000003	R-CHIP;43KOHM,5%,1/10W,DA,TP,2012	
R540	2001-000766	R-CARBON;43KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R545	2007-000511	R-CHIP;2.4KOHM,5%,1/10W,DA,TP,2012	
R550	2001-000766	R-CARBON;43KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R551	2007-000546	R-CHIP;20KOHM,5%,1/10W,DA,TP,2012	
R552	2007-000003	R-CHIP;43KOHM,5%,1/10W,DA,TP,2012	
R553	2007-000546	R-CHIP;20KOHM,5%,1/10W,DA,TP,2012	
R570	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
R571	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	

A2/NICAM PARTS

Loc.No	Part No	Description ; Specification	Remark
C4N01	2203-000142	C-CERAMIC,CHIP;1.5nF,10%,50V,X7R,TP,2012	
C4N02	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C4N03	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,2012	
C4N04	2401-000665	C-AL;2.2uF,20%,50V,GP,TP,3.5x5,5	
C4N05	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C4N06	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C4N07	2203-000938	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,2012	
C4N08	2203-000142	C-CERAMIC,CHIP;1.5nF,10%,50V,X7R,TP,2012	
C4N09	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C4N10	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C4N11	2401-001020	C-AL;3.3UF,20%,50V,GP,TP,4X7,5	
C4N12	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C4N13	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C4N14	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C4N15	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C4N16	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C4N17	2203-000938	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,2012	
C4N18	2203-000938	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,2012	
C4N19	2202-000279	C-CERAMIC,MLC-AXIAL;47pF,5%,50V,SL,TP,3.	
C4N21	2201-002069	C-CERAMIC,DISC;1.5pF,0.25pF,50V,NPO,TP,4	
C4N22	2201-002069	C-CERAMIC,DISC;1.5pF,0.25pF,50V,NPO,TP,4	
C4N23	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4mm,1/0.5	
C4N24	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4mm,1/0.5	
C4N25	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C4N30	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
D4N01	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D4N02	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
IC4N01	1204-001765	IC-AUDIO PROCESSOR;MSP3417D(PQFP),PQFP,4	
L4N01	2702-000160	INDUCTOR-RADIAL;4.7uH,10%,6x6.4mm	
L4N02	2702-000106	INDUCTOR-RADIAL;100uH,10%,6.2x7.4mm	
L4N03	2702-000160	INDUCTOR-RADIAL;4.7uH,10%,6x6.4mm	
L4N04	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
R4N01	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
R4N02	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
R4N03	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
R4N04	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	

Loc.No	Part No	Description ; Specification	Remark
R4N05	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
R4N06	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
XT4N01	2801-004096	CRYSTAL-UNIT;18.432MHZ,20PPM,28-AAA,16PF	

SECAM PARTS(France, Swiss, CIS Models Only)

Loc.No	Part No	Description ; Specification	Remark
C3S01	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C3S02	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C3S03	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C3S04	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C3S05	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C3S06	2401-001775	C-AL;470nF,20%,50V,GP,TP,4x7,5	
C3S07	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C3S08	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C3S09	2401-001775	C-AL;470nF,20%,50V,GP,TP,4x7,5	
C3S10	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C3S11	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C3S12	2301-000008	C-FILM,PEF;2.2nF,5%,50V,TP,5.5X7X3,5mm	
C3S13	2301-000008	C-FILM,PEF;2.2nF,5%,50V,TP,5.5X7X3,5mm	
C3S14	2401-000665	C-AL;2.2uF,20%,50V,GP,TP,3.5x5,5	
C3S15	2203-000444	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-	
IC3S01	1204-001921	IC-CHROMA;LA70100M,SOP,30P,375MIL,PLASTI	
R3S01	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
R3S02	2001-000435	R-CARBON;1MOHM,5%,1/8W,AA,TP,1.8X3.2MM	

OSD/VPS/PDC PARTS

Loc.No	Part No	Description ; Specification	Remark
C6P01	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C6P04	2203-001613	C-CERAMIC,CHIP;0.024nF,0.25pF,50V,NP0,TP	
C6P05	2203-001613	C-CERAMIC,CHIP;0.024nF,0.25pF,50V,NP0,TP	
C6P06	2203-000444	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-	
C6P07	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C6P08	2203-001077	C-CERAMIC,CHIP;0.056nF,5%,50V,NP0,TP,201	
C6P10	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C6P11	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C6P12	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C6P13	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C6P15	2203-001137	C-CERAMIC,CHIP;68nF,+80-20%,50V,Y5V,TP,2	
D6P01	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
IC6P01	1204-001797	IC-OSD PROCESSOR;LC74776NM-9821,MPF,30P,	
J905	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	
L6P03	2702-000142	INDUCTOR-RADIAL;22uH,5%,6x6.4mm	
L6P05	2702-000144	INDUCTOR-RADIAL;27uH,5%,6x6.4mm	
Q6P01	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q6P02	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q6P04	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
R6P01	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6P02	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6P03	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	
R6P04	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R6P05	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R6P06	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
R6P07	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6P08	2001-000005	R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6P09	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
R6P10	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6P12	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R6P13	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
R6P14	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	

INPUT-OUTPUT PARTS

Loc.No	Part No	Description ; Specification	Remark
C801	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C802	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C803	2203-000891	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012	
C804	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C805	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C806	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C807	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C808	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C809	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C810	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C811	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C812	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C813	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C814	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C815	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C816	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C817	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C818	2203-000784	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012	
C819	2203-000784	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012	
C820	2203-000784	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012	
C821	2203-000784	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012	
C822A	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012	
C823	2203-000784	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012	
C823A	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012	
C824	2203-000784	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012	
C824A	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012	
C825	2203-000784	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012	
C826	2203-000784	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012	
C827	2203-000533	C-CERAMIC,CHIP;2.7nF,10%,50V,X7R,TP,2012	
C828	2203-000533	C-CERAMIC,CHIP;2.7nF,10%,50V,X7R,TP,2012	
C830	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012	
C833	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012	
C835	2401-001479	C-AL;470uF,20%,10V,GP,TP,-,-	
C836	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C851	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C852	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C853	2203-000891	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012	
C854	2203-000891	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012	
C902A	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C904A	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
D805	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
IC801	AC14-12004X	IC-FP;BU4053BCF,SOP,REEL	
IC802	AC14-12004X	IC-FP;BU4053BCF,SOP,REEL	
JC801	3722-001573	JACK-SCART;42P/2R,-,SN,BLK/BLU,#20-28	
JC802	AC37-22002N	JACK-PIN;3.2mm,DPAE-9836,3P(1),HI-FI,SV	
L802	2702-000106	INDUCTOR-RADIAL;100uH,10%,6.2x7.4mm	
L803	2701-000181	INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm	
L804	2701-000181	INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm	
L805	2701-000181	INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm	
L806	2701-000181	INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm	
L807	2701-000181	INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm	
L808	2701-000181	INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm	
L809	2701-000181	INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm	
L810	2701-000181	INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm	
L811	2701-000181	INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm	
L812	2701-000181	INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm	
L814	AC27-92001M	COIL-INDUCTOR;RH3.5X6.5RS,BEAD(RADIAL),-	
L901A	2702-000106	INDUCTOR-RADIAL;100uH,10%,6.2x7.4mm	
Q802	0504-000119	TR-DIGITAL;KSR1004,NPN,300MW,47K/47K,TO-	
Q803	0504-000119	TR-DIGITAL;KSR1004,NPN,300MW,47K/47K,TO-	
Q804	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K/4.7K,T	
Q806	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K/4.7K,T	
Q807	0504-000119	TR-DIGITAL;KSR1004,NPN,300MW,47K/47K,TO-	
Q808	0504-000119	TR-DIGITAL;KSR1004,NPN,300MW,47K/47K,TO-	
Q809	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q810	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q811	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
R801	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R802	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012	
R803	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012	
R804	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R805	2007-000642	R-CHIP;270OHM,5%,1/10W,DA,TP,2012	
R806	2007-000642	R-CHIP;270OHM,5%,1/10W,DA,TP,2012	

Loc.No	Part No	Description ; Specification	Remark
R807	2007-001166	R-CHIP;75OHM,5%,1/10W,DA,TP,2012	
R808	2007-001166	R-CHIP;75OHM,5%,1/10W,DA,TP,2012	
R809	2007-001166	R-CHIP;75OHM,5%,1/10W,DA,TP,2012	
R810	2007-000642	R-CHIP;270OHM,5%,1/10W,DA,TP,2012	
R811	2007-000642	R-CHIP;270OHM,5%,1/10W,DA,TP,2012	
R812	2007-001166	R-CHIP;75OHM,5%,1/10W,DA,TP,2012	
R813	2007-000642	R-CHIP;270OHM,5%,1/10W,DA,TP,2012	
R814	2007-000642	R-CHIP;270OHM,5%,1/10W,DA,TP,2012	
R815	2007-000642	R-CHIP;270OHM,5%,1/10W,DA,TP,2012	
R816	2007-000642	R-CHIP;270OHM,5%,1/10W,DA,TP,2012	
R819	2007-000642	R-CHIP;270OHM,5%,1/10W,DA,TP,2012	
R820	2007-000642	R-CHIP;270OHM,5%,1/10W,DA,TP,2012	
R821	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	
R822	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
R823	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R825	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R827	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	
R828	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	
R829	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	
R830	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	
R831	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	
R832	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	
R833	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	
R834	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	
R835	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	
R836	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	
R839	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
R841	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
R842	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
R843	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
R844	2007-001166	R-CHIP;75OHM,5%,1/10W,DA,TP,2012	
R851	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R852	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
ZD801	0403-000297	DIODE-ZENER;MTZ6.2B,6.2V,5.96-6.27V,500m	
602	**AH92-01454A**	**ASSY PCB-MAIN(EU);DVD-V2000D,DVD,MAIN ,E**	
AC18	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
AC19	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
AC20	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
AC21	2203-000315	C-CERAMIC,CHIP;0.12nF,5%,50V,NP0,TP,1608	
AC22	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
AC23	2203-000125	C-CERAMIC,CHIP;1.2nF,10%,50V,X7R,TP,1608	
AC24	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
AC25	2203-000315	C-CERAMIC,CHIP;0.12nF,5%,50V,NP0,TP,1608	
AC26	2203-000125	C-CERAMIC,CHIP;1.2nF,10%,50V,X7R,TP,1608	
AC27	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
AD1	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
AD2	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
AD3	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
AD4	0401-000008	DIODE-SWITCHING;DAN217,80V,100mA,SOT-23,	
AD5	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
AE10	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
AE11	2401-000913	C-AL;22uF,20%,16V,GP,TP,5x11,5	
AE12	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
AE13	2401-000913	C-AL;22uF,20%,16V,GP,TP,5x11,5	
AE14	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
AE15	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
AE16	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
AE21	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
AE3	2401-000913	C-AL;22uF,20%,16V,GP,TP,5x11,5	
AE5	2401-000913	C-AL;22uF,20%,16V,GP,TP,5x11,5	
AE8	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
AE9	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
AIC2	1002-001294	IC-D/A CONVERTER;PCM1742KE,24BIT,TSSOP,1	
AIC4	1201-000163	IC-OP AMP;4560,SOP,8P,173MIL,DUAL,100V/m	
AL1	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	

Loc.No	Part No	Description ; Specification	Remark
AL2	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
AQ1	0504-000128	TR-DIGITAL;-,NPN,200MW,22K/22K,SOT-23,TP	
AQ2	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
AQ3	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
AQ4	0504-000128	TR-DIGITAL;-,NPN,200MW,22K/22K,SOT-23,TP	
AQ5	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
AQ6	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
AQ7	0504-000128	TR-DIGITAL;-,NPN,200MW,22K/22K,SOT-23,TP	
AQ8	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
AQ9	0501-000314	TR-SMALL SIGNAL;KSA812,PNP,150mW,SOT-23,	
AR01	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
AR02	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
AR14	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
AR15	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
AR17	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
AR18	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
AR28	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
AR29	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
AR31	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
AR32	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
AR41	2007-001179	R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608	
AR42	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
AR43	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
AR44	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
AR45	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
AR46	2007-001179	R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608	
AR47	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
AR48	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
AR49	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
AR50	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
AR51	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
AR52	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
AR54	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
AR55	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
AR60	2007-001135	R-CHIP;68OHM,5%,1/8W,DA,TP,3216	
CN1	3708-001696	CONNECTOR-FPC/FFC/PIC;24P,1MM,STRAIGHT,S	
CN2	3708-001695	CONNECTOR-FPC/FFC/PIC;13P,1MM,STRAIGHT,S	
CN3	3711-001018	CONNECTOR-HEADER;BOX,5P,1R,2mm,STRAIGHT,	
CN4	3708-000270	CONNECTOR-FPC/FFC/PIC;33P,1.25mm,STRAIGH	
DOC1	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
DOC2	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DOC3	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DOC4	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
DOE1	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
DOIC1	AH14-10004R	IC;M74HCU04,SOP,TAPE 14P	
DOIC2	3707-001052	CONNECTOR-OPTICAL;PLUG,GP1FA550TZ,6dB,2.	
DOL1	2901-001125	FILTER-EMI ON BOARD;50V,0.5A,-,220pF,7x2	
DOL2	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
DOR1	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
DOR2	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608	
DOR3	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
DOR4	2007-000023	R-CHIP;120OHM,5%,1/10W,DA,TP,2012	
DRC1	2203-001222	C-CERAMIC,CHIP;820pF,10%,50V,X7R,TP,1608	
DRC10	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DRC11	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DRC12	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DRC13	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DRC2	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DRC3	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DRC4	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DRC5	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DRC6	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DRC7	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DRC8	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DRC9	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
DRE1	2401-002196	C-AL;4.7UF,20,25V,GP,TP,4X5,5MM,-	

Loc.No	Part No	Description ; Specification	Remark
DRE2	2401-002196	C-AL;4.7UF,20,25V,GP,TP,4X5,5MM,-	
DRE3	2401-002196	C-AL;4.7UF,20,25V,GP,TP,4X5,5MM,-	
DRE4	2401-001728	C-AL;10uF,20%,35V,GP,TP,5x7,5	
DRE5	2401-002095	C-AL;47uF,20%,25V,GP,TP,6.3x5,5	
DRIC1	1003-001298	IC-MOTOR DRIVER;KA3017,HQFP,48P,550MIL,1	
DRR1	2007-000034	R-CHIP;1OHM,5%,1/4W,DA,TP,3216	
DRR10	2007-000655	R-CHIP;27Kohm,5%,1/16W,DA,TP,1608	
DRR11	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
DRR12	2007-000116	R-CHIP;120ohm,5%,1/16W,DA,TP,1608	
DRR13	2007-000116	R-CHIP;120ohm,5%,1/16W,DA,TP,1608	
DRR2	2007-000034	R-CHIP;1OHM,5%,1/4W,DA,TP,3216	
DRR3	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
DRR4	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
DRR5	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
DRR6	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
DRR7	2007-000093	R-CHIP;20Kohm,5%,1/16W,DA,TP,1608	
DRR8	2007-000093	R-CHIP;20Kohm,5%,1/16W,DA,TP,1608	
DRR9	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
FR1	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
FR2	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
FR3	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
FR4	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
FR5	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
FR6	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
FR7	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
JACK1	3722-001092	JACK-PIN;1P,3.3mm,NI,BLK,NO	
MC1	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC11	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC12	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC13	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC14	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
MC15	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
MC16	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
MC17	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC18	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC2	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
MC22	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
MC23	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
MC25	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
MC26	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
MC27	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
MC29	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
MC3	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
MC4	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC5	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC6	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
MC7	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC8	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MIC1	0903-001270	IC-MICROCONTROLLER;UPD703130,16BIT,LQFP,	
MIC2	1102-001090	IC-EPROM;27C081,1MX8BIT,DIP,32P,600MIL,	
MIC2B	3704-000472	SOCKET-IC;32P,DIP,SN,2.54mm	
MIC3	1103-001204	IC-EEPROM;24C021,256x8Bit,SOP,8P,150MIL,	
MIC4	0801-002097	IC-CMOS LOGIC;7ST08,AND GATE,SOP,5P,110M	
MIC5	0801-001072	IC-CMOS LOGIC;74ACT32,OR GATE,SOP,14P,15	
ML1	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
MR1	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
MR10	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR11	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR12	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR13	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR14	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608	
MR15	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR16	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
MR17	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR18	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR19	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	

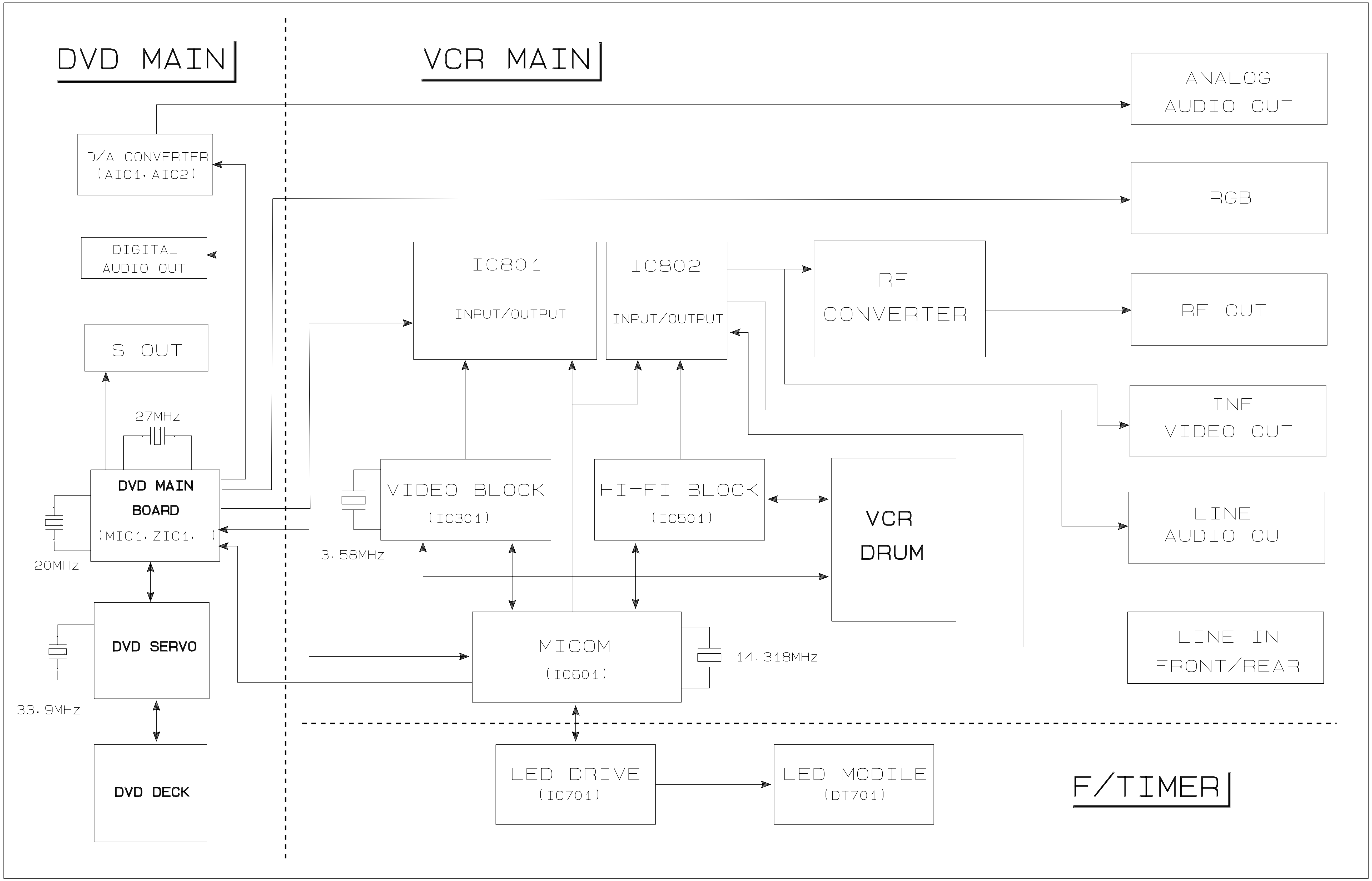
Loc.No	Part No	Description ; Specification	Remark
MR2	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR20	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR21	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR22	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR23	2007-000729	R-CHIP;300ohm,5%,1/16W,DA,TP,1608	
MR24	2007-000729	R-CHIP;300ohm,5%,1/16W,DA,TP,1608	
MR25	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR26	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR27	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR28	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR3	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR30	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR31	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
MR32	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
MR33	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
MR38	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
MR39	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
MR4	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
MR40	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
MR42	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
MR43	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
MR5	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
MR6	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
MR7	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
MR8	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
MR9	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MY1	2802-001153	RESONATOR-CERAMIC;5MHZ,0.5%,TP,8.0X3.0X2	
PC1	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
PC10	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
PC11	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
PC2	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
PC3	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
PC4	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
PC5	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
PC6	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
PC7	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
PC8	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
PD1	0402-000309	DIODE-RECTIFIER;1SR154-400,400V,1A,SOD-1	
PE1	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
PE10	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
PE2	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
PE3	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
PE4	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
PE5	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
PE6	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
PE8	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
PE9	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
PIC1	1203-002178	IC-VOLTAGE REGULATOR;1563,SOP,7P,173MIL,	
PIC3	1203-002185	IC-VOLTAGE REGULATOR;3RD13,TO-220,4P,402	
PL1	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
PL2	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
PL3	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
PL4	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
PL5	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
PL6	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
RC1	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC10	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC11	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC12	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC13	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
RC14	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
RC15	2203-000560	C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,	
RC16	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
RC17	2203-000560	C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,	
RC18	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC19	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
RC2	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC21	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC22	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC23	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC24	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC25	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC26	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC27	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
RC28	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC29	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC3	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC33	2203-005065	C-CERAMIC,CHIP;1000nF,+80-20%,10V,Y5V,TP	
RC34	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	
RC35	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
RC36	2203-000140	C-CERAMIC,CHIP;1.5nF,10%,50V,X7R,TP,1608	
RC37	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC38	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC39	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC4	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC40	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC41	2203-000140	C-CERAMIC,CHIP;1.5nF,10%,50V,X7R,TP,1608	
RC5	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC6	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC7	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC8	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RD1	0407-000116	DIODE-ARRAY;DAP202K,80V,100mA,CK2-3,SOT-	
RE1	2401-001728	C-AL;10uF,20%,35V,GP,TP,5x7,5	
RE10	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
RE11	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
RE2	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
RE3	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
RE4	2401-000913	C-AL;22uF,20%,16V,GP,TP,5x11,5	
RE5	2401-000913	C-AL;22uF,20%,16V,GP,TP,5x11,5	
RE6	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
RE7	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
RE8	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
RE9	2401-001728	C-AL;10uF,20%,35V,GP,TP,5x7,5	
RIC1	AH13-00009A	IC ASIC;KS1462B,DVD-M201/XAA,80,+5V,-4	
RL1	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
RL2	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
RQ1	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
RQ2	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
RQ3	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
RQ4	0501-000279	TR-SMALL SIGNAL;KSA1182-Y,PNP,150mW,SOT-	
RQ5	0501-000279	TR-SMALL SIGNAL;KSA1182-Y,PNP,150mW,SOT-	
RR10	2007-000312	R-CHIP;10OHM,5%,1/8W,DA,TP,3216	
RR11	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
RR12	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RR13	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RR14	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RR15	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RR16	2007-001235	R-CHIP;910Kohm,5%,1/16W,DA,TP,1608	
RR17	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
RR18	2007-000655	R-CHIP;27Kohm,5%,1/16W,DA,TP,1608	
RR19	2007-000134	R-CHIP;33Kohm,5%,1/16W,DA,TP,1608	
RR20	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RR22	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
RR23	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RR24	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RR25	2007-000087	R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1608	
RR26	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RR27	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
RR28	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RR29	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RR3	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
RR30	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RR31	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
RR32	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RR33	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
RR4	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
RR5	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
RR6	2007-001179	R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608	
RR7	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
RR8	2007-000312	R-CHIP;10OHM,5%,1/8W,DA,TP,3216	
RR9	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RVR1	2104-001068	VR-SMD;10Kohm,25%,1/20W,TOP	
SC1	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC10	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC11	2203-002398	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,1608	
SC12	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC13	2203-002398	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,1608	
SC14	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC15	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1608	
SC16	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1608	
SC17	2203-000372	C-CERAMIC,CHIP;15nF,10%,50V,X7R,TP,1608,	
SC18	2203-000372	C-CERAMIC,CHIP;15nF,10%,50V,X7R,TP,1608,	
SC19	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC2	2203-001222	C-CERAMIC,CHIP;820pF,10%,50V,X7R,TP,1608	
SC20	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC21	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC22	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC23	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC24	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC25	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC27	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC28	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC29	2203-000681	C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,160	
SC3	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC30	2203-000681	C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,160	
SC31	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC32	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC33	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC34	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC35	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
SC36	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
SC37	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
SC38	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
SC39	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC4	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC40	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC41	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC42	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC43	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC45	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC5	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
SC6	2203-001634	C-CERAMIC,CHIP;33nF,10%,50V,X7R,TP,1608,	
SC7	2203-001126	C-CERAMIC,CHIP;0.68nF,10%,50V,X7R,TP,160	
SC8	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608	
SC9	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
SE1	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
SE2	2401-001728	C-AL;10uF,20%,35V,GP,TP,5x7,5	
SE3	2401-001728	C-AL;10uF,20%,35V,GP,TP,5x7,5	
SE4	2401-001728	C-AL;10uF,20%,35V,GP,TP,5x7,5	
SIC1	AH13-00006A	IC ASIC;KS1454,DVD-611/XAA,160,+3.3V,+	
SIC2	1105-001243	IC-DRAM;416C256,256KX16BIT,SOJ,40P,400	
SIC4	0801-002097	IC-CMOS LOGIC;7ST08,AND GATE,SOP,5P,110M	
SJACK	3722-001375	JACK-DIN;4P,-,NI,BLK,-	
SQ1	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
SR1	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
SR10	2007-000133	R-CHIP;330Kohm,5%,1/16W,DA,TP,1608	
SR11	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
SR14	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
SR15	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
SR16	2007-001235	R-CHIP;910Kohm,5%,1/16W,DA,TP,1608	
SR17	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
SR18	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
SR19	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
SR2	2007-000087	R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1608	
SR20	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
SR21	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
SR22	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
SR23	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
SR24	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
SR26	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
SR27	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
SR28	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
SR29	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
SR3	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
SR30	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
SR31	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
SR32	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
SR33	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
SR34	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
SR35	2007-000093	R-CHIP;20Kohm,5%,1/16W,DA,TP,1608	
SR36	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608	
SR38	2007-000076	R-CHIP;330ohm,5%,1/16W,DA,TP,1608	
SR39	2007-000076	R-CHIP;330ohm,5%,1/16W,DA,TP,1608	
SR4	2007-000107	R-CHIP;470Kohm,5%,1/16W,DA,TP,1608	
SR5	2007-000381	R-CHIP;13Kohm,5%,1/16W,DA,TP,1608	
SR6	2007-000799	R-CHIP;360ohm,5%,1/16W,DA,TP,1608	
SR7	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
SR8	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
SR9	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
SY1	2801-000261	CRYSTAL-UNIT;33.8688MHz,50ppm,28-AAA,12p	
VC1	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP,160	
VC10	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
VC100	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,1608	
VC101	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,1608	
VC102	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,1608	
VC11	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,1608	
VC12	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,1608	
VC16	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
VC17	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
VC18	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
VC2	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP,160	
VC3	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP,160	
VC4	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP,160	
VC5	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
VC6	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
VC7	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
VC9	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
VE1	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
VE11	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
VE13	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
VE5	2401-000913	C-AL;22uF,20%,16V,GP,TP,5x11,5	
VE7	2401-001479	C-AL;470uF,20%,10V,GP,TP,-,-	
VE9	2401-001479	C-AL;470uF,20%,10V,GP,TP,-,-	
VIC1	1201-001836	IC-VIDEO AMP;MM1567AJBE,SOP,34P,300MIL,-	
VL1	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
VL2	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
VL3	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
VL4	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
VL5	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
VL7	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
VL8	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
VR1	2007-001214	R-CHIP;82ohm,1%,1/16W,DA,TP,1608	
VR10	2007-001164	R-CHIP;75ohm,1%,1/16W,DA,TP,1608	
VR11	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR13	2007-001214	R-CHIP;82ohm,1%,1/16W,DA,TP,1608	
VR14	2007-001164	R-CHIP;75ohm,1%,1/16W,DA,TP,1608	
VR15	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR17	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608	
VR18	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608	
VR2	2007-001164	R-CHIP;75ohm,1%,1/16W,DA,TP,1608	
VR28	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
VR3	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR30	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
VR34	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608	
VR35	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608	
VR36	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608	
VR5	2007-001214	R-CHIP;82ohm,1%,1/16W,DA,TP,1608	
VR6	2007-001164	R-CHIP;75ohm,1%,1/16W,DA,TP,1608	
VR7	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR9	2007-001214	R-CHIP;82ohm,1%,1/16W,DA,TP,1608	
VZ1	0403-001083	DIODE-ZENER;UDZ9.1B,9.1V,8.85-9.23V,200m	
VZ2	0403-001083	DIODE-ZENER;UDZ9.1B,9.1V,8.85-9.23V,200m	
VZ3	0403-001083	DIODE-ZENER;UDZ9.1B,9.1V,8.85-9.23V,200m	
VZ4	0403-001083	DIODE-ZENER;UDZ9.1B,9.1V,8.85-9.23V,200m	
XC1	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	
XC2	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
XC3	2203-000681	C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,160	
XC4	2203-000681	C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,160	
XIC1	AH14-10004R	IC;M74HCU04,SOP,TAPE 14P	
XL1	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
XL2	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
XR1	2007-000607	R-CHIP;240OHM,5%,1/10W,DA,TP,2012	
XR2	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608	
XY1	2801-003554	CRYSTAL-UNIT;27MHz,10ppm,28-AAM,12pF,40o	
ZC1	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
ZC10	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC100	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC101	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC103	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC11	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC12	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC13	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC14	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC15	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC16	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC17	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC18	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC19	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC2	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
ZC20	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC21	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC22	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC23	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC24	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC25	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC26	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC27	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC28	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC29	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC3	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC30	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC31	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC32	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC33	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC34	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
ZC35	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC36	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC37	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC38	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC39	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
ZC4	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC40	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC41	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC42	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC43	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
ZC44	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP,160	
ZC45	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
ZC5	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC6	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC7	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC8	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC9	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
ZE1	2401-001479	C-AL;470uF,20%,10V,GP,TP,-,-	
ZE100	2401-001479	C-AL;470uF,20%,10V,GP,TP,-,-	
ZE2	2401-001479	C-AL;470uF,20%,10V,GP,TP,-,-	
ZE3	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
ZIC1	1204-001919	IC-DECODER;ZIVA4.1 B0,QFP,208P,28X28MM,P	
ZIC2	1105-001305	IC-DRAM;4S641632,1Mx16x4Bit,TSOP,54P,4	
ZL1	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
ZL2	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
ZL3	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
ZL4	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
ZL5	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
ZL6	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
ZL7	3301-001419	CORE-FERRITE BEAD;AB,220ohm,1.6x0.8x0.8m	
ZR1	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
ZR10	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ZR11	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ZR15	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
ZR17	2007-007332	R-CHIP;1.18KOHM,1%,1/10W,DA,TP,2012	
ZR18	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ZR19	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
ZR2	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
ZR20	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
ZR21	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ZR22	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ZR23	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ZR24	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ZR25	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
ZR28	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
ZR29	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
ZR3	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ZR30	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
ZR31	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
ZR4	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
ZR5	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
ZR6	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ZR7	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ZR8	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ZR9	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
701	**AC92-01230A**	**ASSY OPT PCB-TIMER;SV-DVD3E ,TIMER**	
C701	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C702	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C703	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
C704	2401-000118	C-AL;1000uF,20%,10V,GP,TP,10x12.5,5	
C712	2202-000183	C-CERAMIC,MLC-AXIAL;2.2NF,20%,16V,Y5R,TP	
C713	2202-000183	C-CERAMIC,MLC-AXIAL;2.2NF,20%,16V,Y5R,TP	
CN701	3710-001145	CONNECTOR-SOCKET;20P,1R,1.5mm,STRAIGHT,S	
D702	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D703	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D704	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D705	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D706	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
DT701	AC07-00050A	LED DISPLAY;LTG-0149M(LITE-ON),DVD-V2000	
IC702	1003-001443	IC-LED DRIVER;PT6959,SOIC,28P,300MIL,-,-	
JK701	AC37-00006A	JACK-PIN;3.2MM,DPSE-9872,3P,ARREY,10MM	
L701	2701-000002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	
LD701	0601-000497	LED;ROUND,GRN,3.1mm,565nm	
Q702	0504-000119	TR-DIGITAL;KSR1004,NPN,300MW,47K/47K,TO-	
R701	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R702	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R703	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R704	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R705	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R706	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R707	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R710	2001-000832	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R732	2001-000837	R-CARBON;51KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RM701	AC59-60060A	MODULE REMOCON;GP1U281R,SHARP,38KHZ,-,-,	
SW702	3404-001188	SWITCH-TACT;12V,50MA,100GF,6X6X5,SPST	
SW703	3404-001188	SWITCH-TACT;12V,50MA,100GF,6X6X5,SPST	
SW704	3404-001188	SWITCH-TACT;12V,50MA,100GF,6X6X5,SPST	
SW705	3404-001188	SWITCH-TACT;12V,50MA,100GF,6X6X5,SPST	
SW706	3404-001188	SWITCH-TACT;12V,50MA,100GF,6X6X5,SPST	
SW708	3404-001188	SWITCH-TACT;12V,50MA,100GF,6X6X5,SPST	
SW709	3404-001188	SWITCH-TACT;12V,50MA,100GF,6X6X5,SPST	
SW710	3404-001188	SWITCH-TACT;12V,50MA,100GF,6X6X5,SPST	
SW711	3404-001188	SWITCH-TACT;12V,50MA,100GF,6X6X5,SPST	
SW712	3404-001188	SWITCH-TACT;12V,50MA,100GF,6X6X5,SPST	
SW714	3404-001188	SWITCH-TACT;12V,50MA,100GF,6X6X5,SPST	
SW715	3404-001188	SWITCH-TACT;12V,50MA,100GF,6X6X5,SPST	
SW716	3404-001188	SWITCH-TACT;12V,50MA,100GF,6X6X5,SPST	

8. Block Diagram


DVD MAIN
VCR MAIN
ANALOG AUDIO OUT
D/A CONVERTER (AIC1, AIC2)
RGB
DIGITAL AUDIO OUT
IC801 INPUT/OUTPUT
IC802 INPUT/OUTPUT
RF CONVERTER
RF OUT
S-OUT
LINE VIDEO OUT
27MHz
DVD MAIN BOARD (MIC1, ZIC1, -)
VIDEO BLOCK (IC301)
HI-FI BLOCK (IC501)
VCR DRUM
LINE AUDIO OUT
20MHz
3.58MHz
DVD SERVO
MICOM (IC601)
14.318MHz
LINE IN FRONT/REAR
33.9MHz
DVD DECK
LED DRIVE (IC701)
LED MODILE (DT701)
F/TIMER

MEMO

9. PCB Diagrams

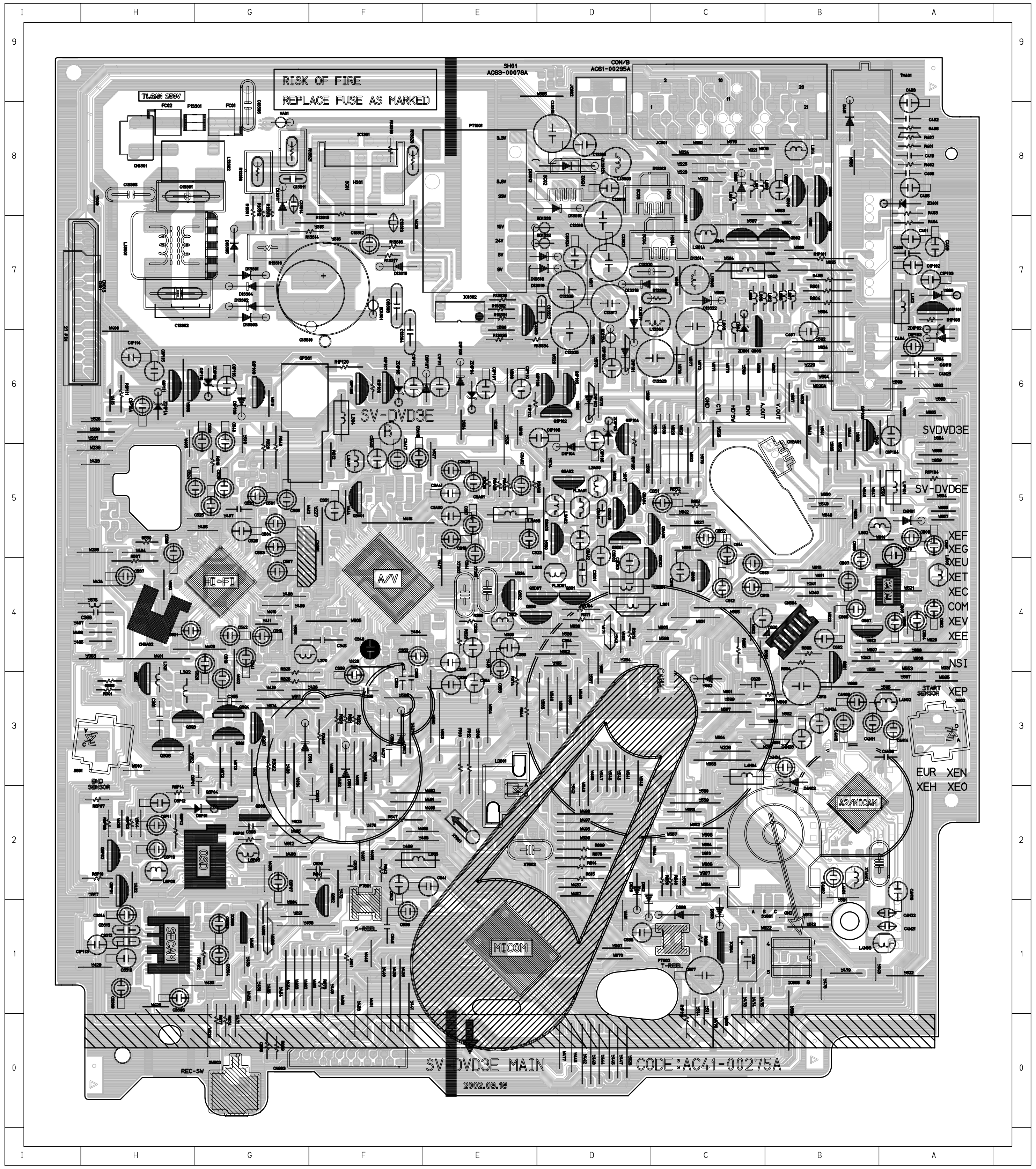
9-1 VCR Main - 9-2

9-2 DVD Main - 9-4

9-3 Function-Timer - 9-5

9-1 VCR Main

COMPONENT SIDE


I
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E
D
C
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6
5
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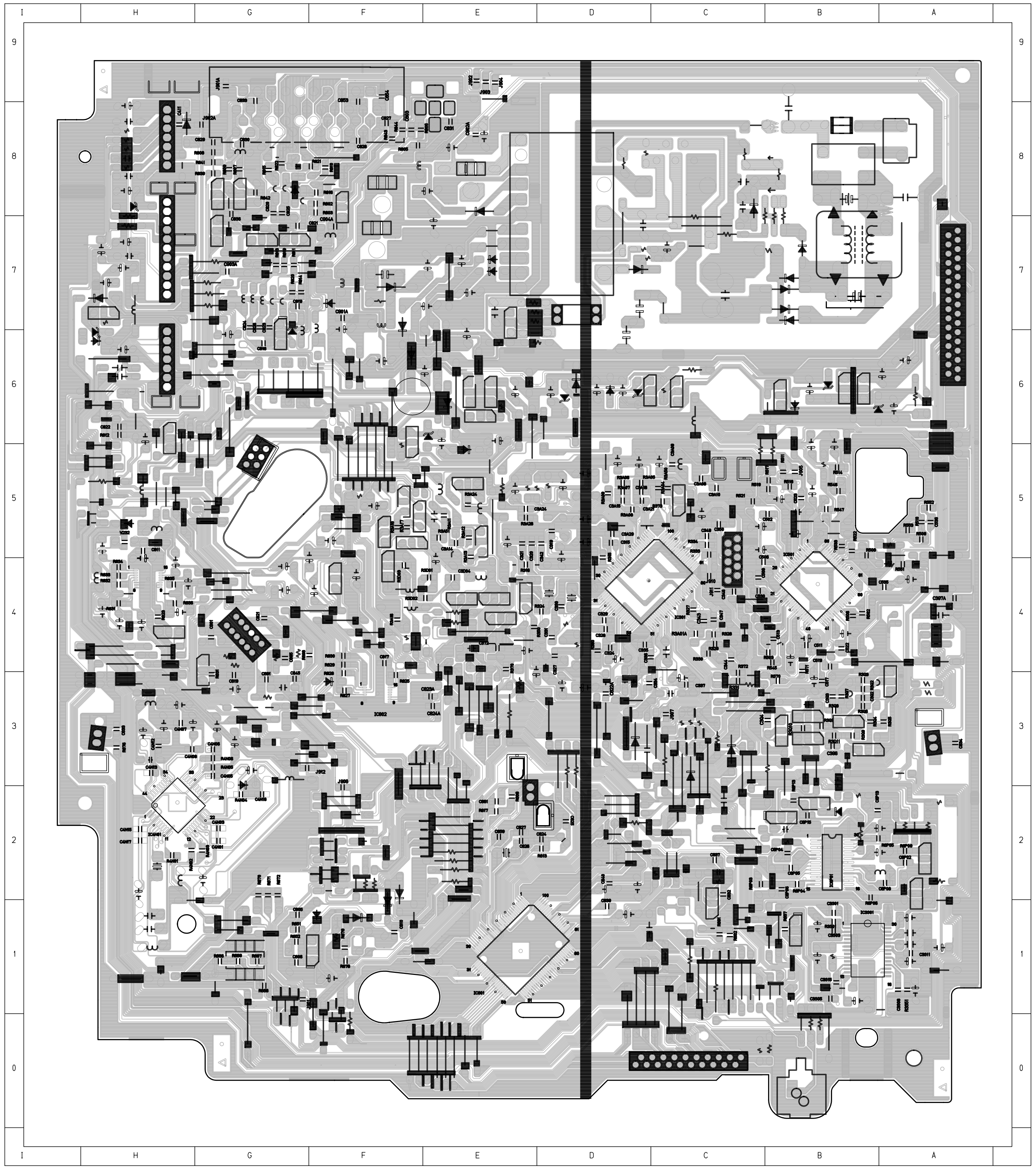
3
2
1
0
RISK OF FIRE
REPLACE FUSE AS MARKED
SV-DVD3E
SVDVD3E
SV-DVD6E
XEF
XEG
XEU
XET
XEC
COM
XEV
XEE
NSI
XEP
EUR XEN
XEH XEO
HI-FI
A/V
MICOM
A2/NICAM
END SENSOR
START SENSOR
S-REEL
T-REEL
REC-SW
SV-DVD3E MAIN
CODE:AC41-00275A
2002.03.18

CONDUCTOR SIDE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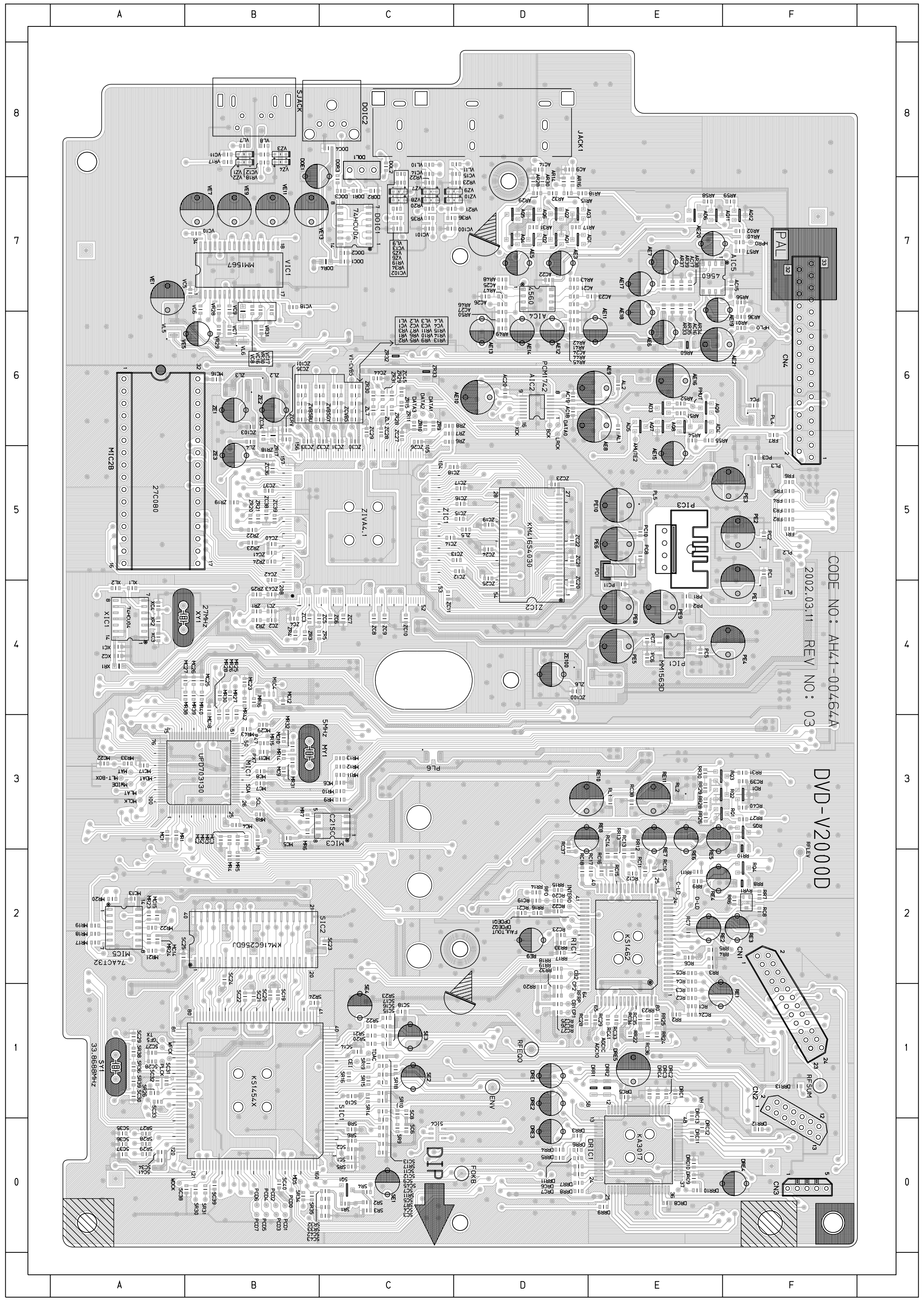
0

9-2 DVD Main



COMPONENT SIDE

A
B
C
D
E
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0
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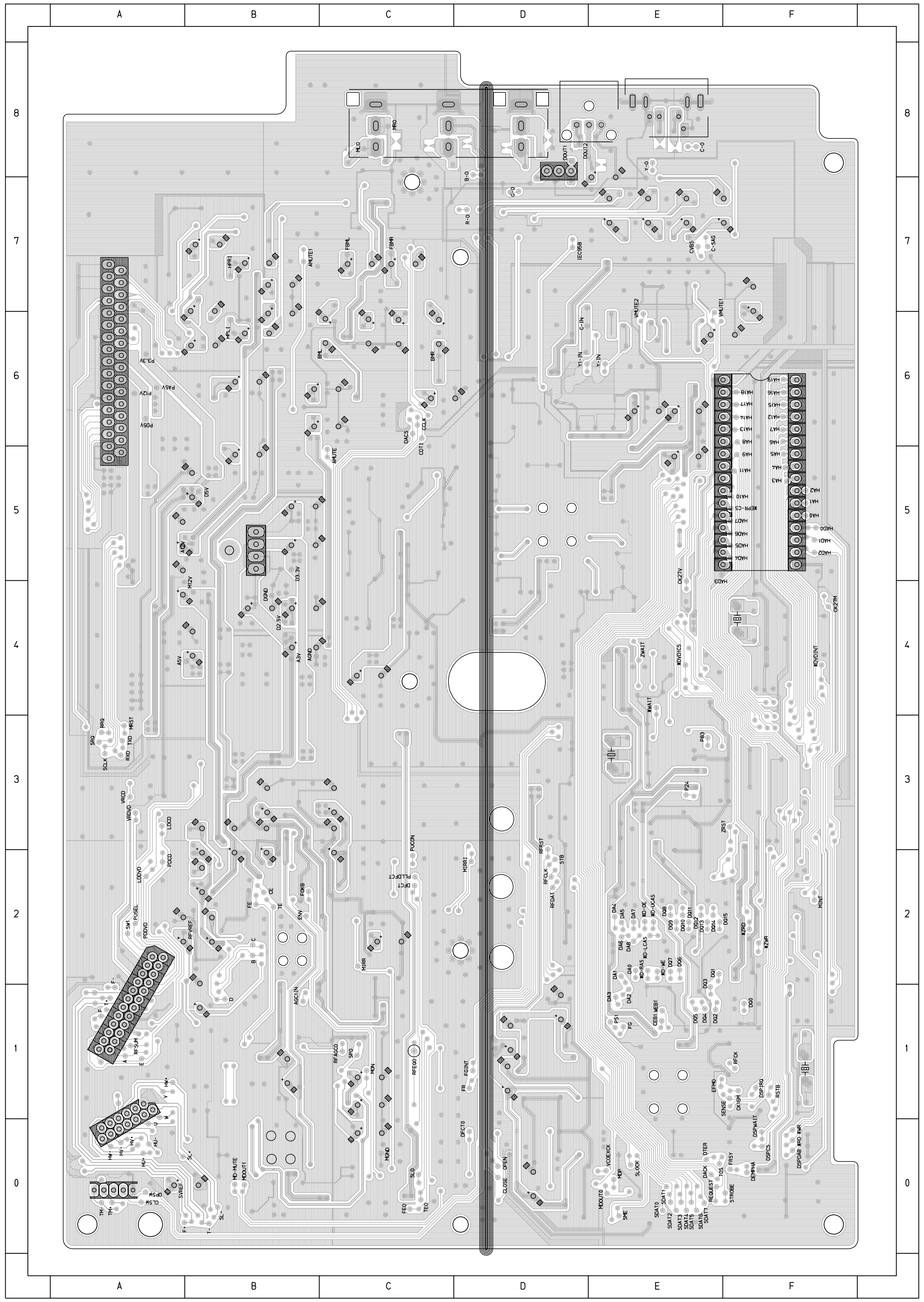
2
3
4
5
6
7
8
DVD-V2000D
CODE NO: AH41-00464A
2002.03.11 REV NO: 03
PAL
DIP



SOLDER SIDE

A
B
C
D
E
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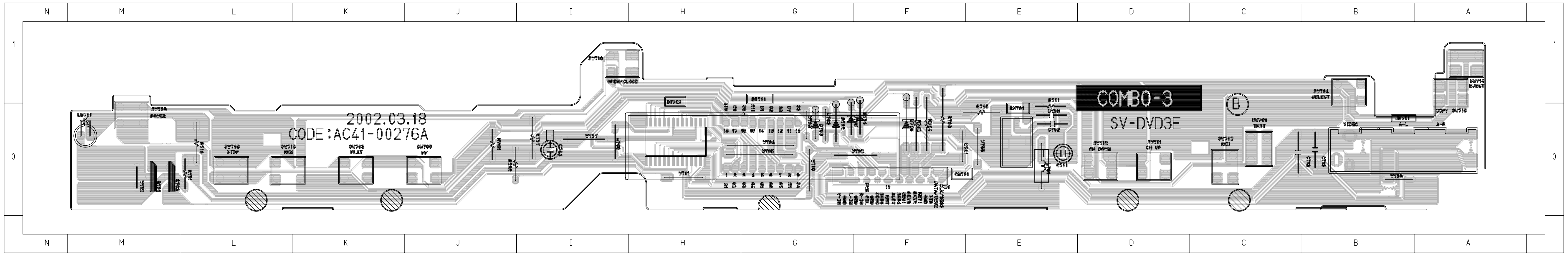
8

9-3 Function-Timer

COMPONENT SIDE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D
C
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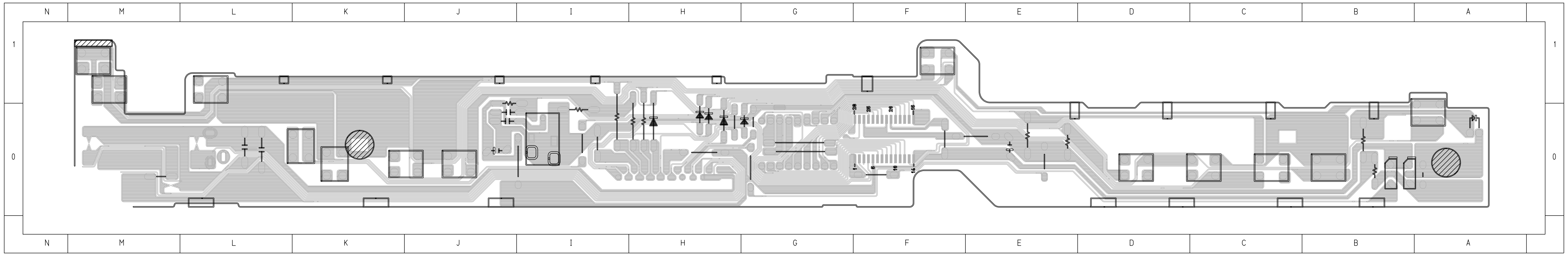
1
0
2002.03.18
CODE:AC41-00276A
COMBO-3
SV-DVD3E
B

CONDUCTOR SIDE


N
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L
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J
I
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F
E
D
C
B
A
1
0

MEMO

10. Schematic Diagrams

Block Identification of Main PCB - 10-2

10-1 S.M.P.S. - 10-3

10-2 Power Drive - 10-4

10-3 Function-Timer - 10-5

VCR Main PCB

10-4 System Control/Servo- 10-6

10-5 A/V - 10-7

10-6 Hi-Fi/MTS - 10-8

10-7 Input-Output - 10-9

10-8 A2/NICAM - 10-10

10-9 OSD/VPS/PDC - 10-11

10-10 SECAM- 10-12

10-11 TM- 10-13

DVD Main PCB

10-12 DVD Main-Micom/AV Decoder - 10-14

10-13 DVD Servo - 10-15

10-14 DVD Audio/Video - 10-16

Note

For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.

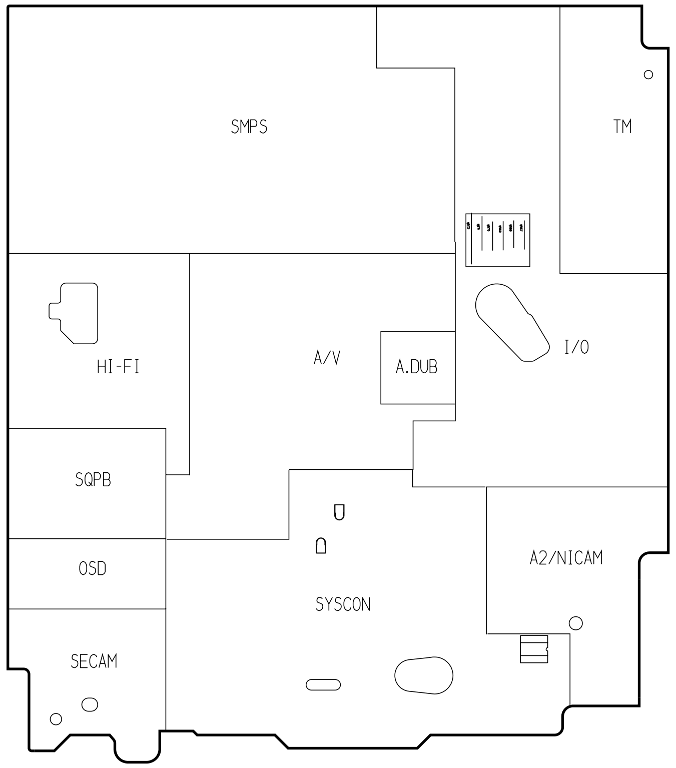
Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the “electrostatically sensitive (ES) devices” section of this service manual.

Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

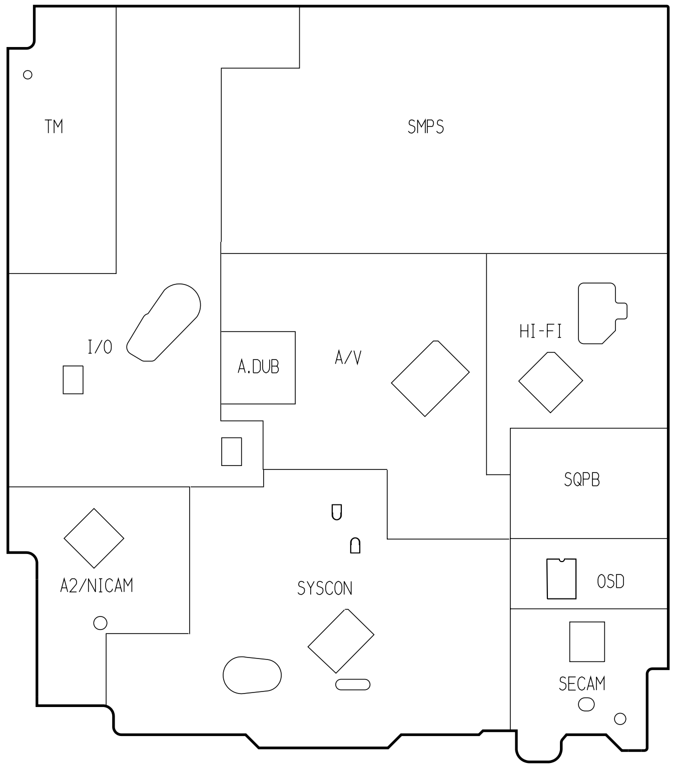
Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components.
Use only the same type.

Block Identification of Main PCB

VCR MAIN PCB

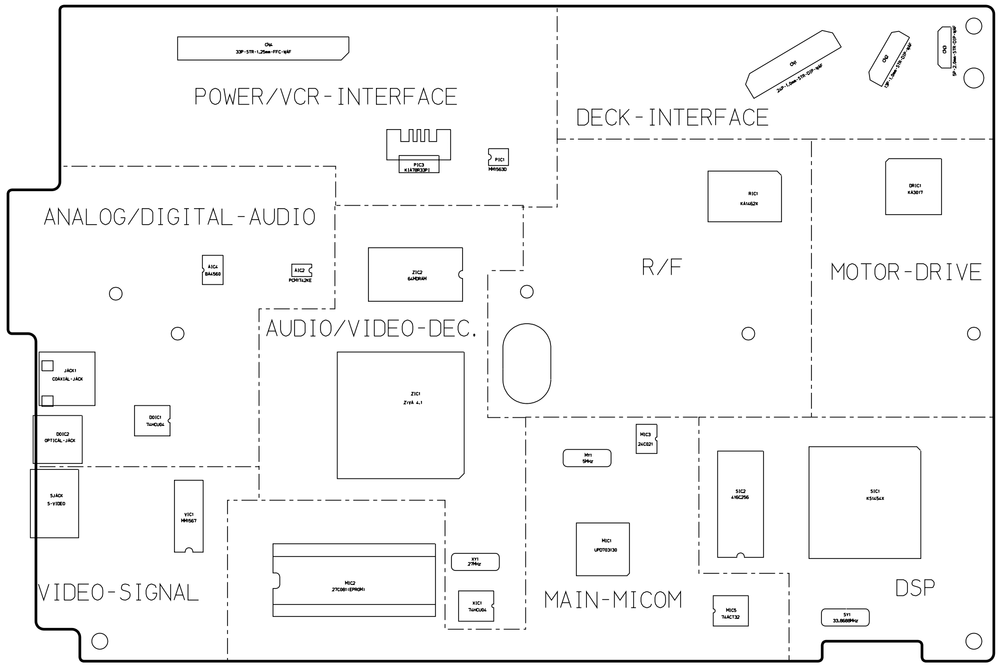

SMPS
TM
HI-FI
A/V
A.DUB
I/O
SQPB
OSD
SECAM
SYSCON
A2/NICAM

<Component Side>


TM
SMPS
I/O
A.DUB
A/V
HI-FI
SQPB
A2/NICAM
SYSCON
OSD
SECAM

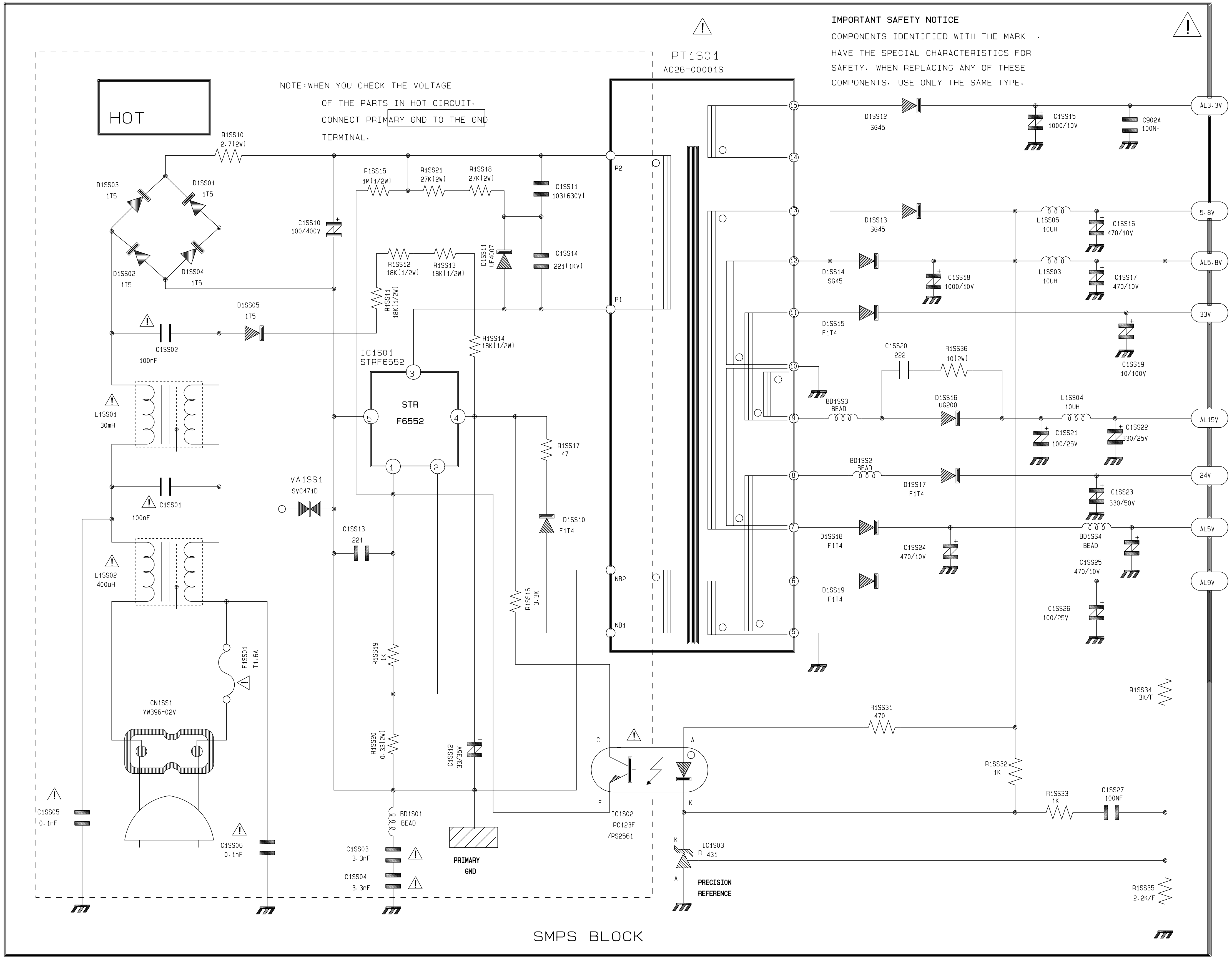
<Conductor Side>

DVD MAIN PCB


POWER/VCR-INTERFACE
DECK-INTERFACE
ANALOG/DIGITAL-AUDIO
R/F
MOTOR-DRIVE
AUDIO/VIDEO-DEC.
VIDEO-SIGNAL
MAIN-MICOM
DSP

<Component Side>

10-1 S.M.P.S.



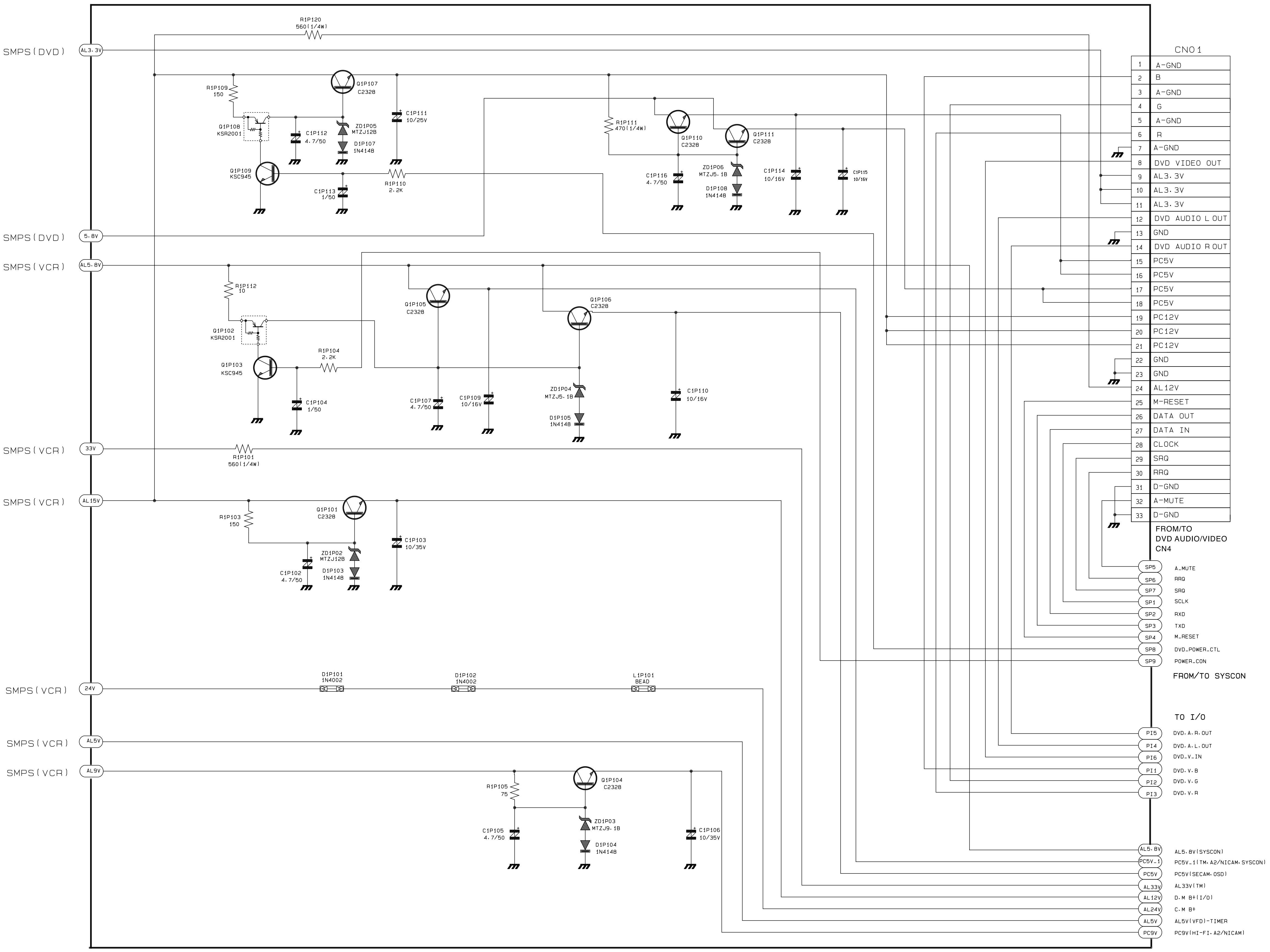
IMPORTANT SAFETY NOTICE

COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

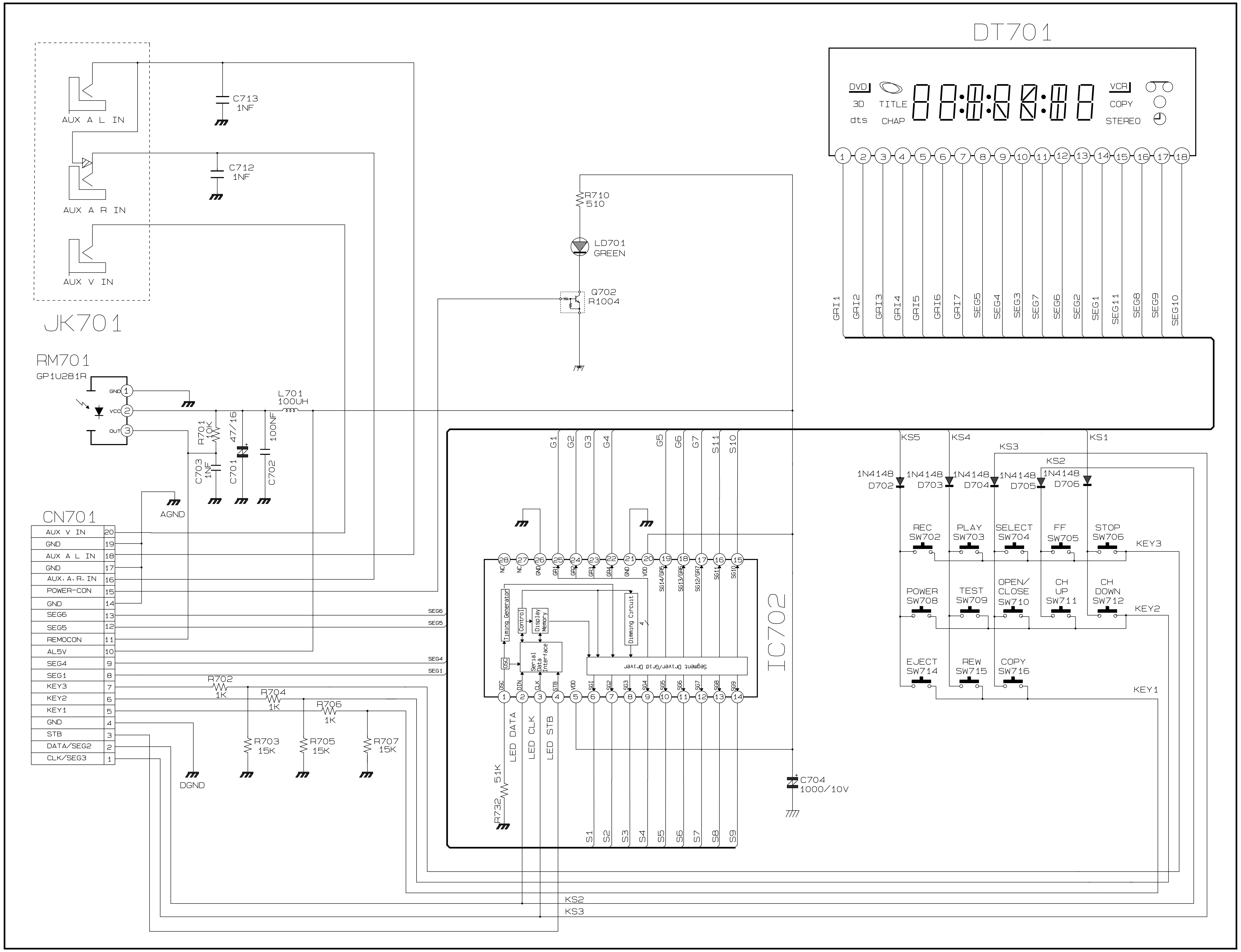
NOTE:WHEN YOU CHECK THE VOLTAGE OF THE PARTS IN HOT CIRCUIT. CONNECT PRIMARY GND TO THE GND TERMINAL.

HOT
R1SS10 2.7(2W)
D1SS03 1T5
D1SS01 1T5
D1SS02 1T5
D1SS04 1T5
C1SS10 100/400V
R1SS15 1M(1/2W)
R1SS21 27K(2W)
R1SS18 27K(2W)
C1SS11 103(630V)
R1SS12 18K(1/2W)
R1SS13 18K(1/2W)
D1SS11 UF4007
C1SS14 221(1KV)
D1SS05 1T5
R1SS11 18K(1/2W)
C1SS02 100nF
R1SS14 18K(1/2W)
IC1S01 STRF6552
STR F6552
L1SS01 30mH
R1SS17 47
VA1SS1 SVC471D
C1SS01 100nF
C1SS13 221
D1SS10 F1T4
L1SS02 400uH
R1SS16 3.3K
F1SS01 T1.6A
CN1SS1 YW396-02V
R1SS19 1K
R1SS20 0.33(2W)
C1SS12 33/35V
C1SS05 0.1nF
C1SS06 0.1nF
BD1S01 BEAD
C1SS03 3.3nF
C1SS04 3.3nF
PRIMARY GND
PT1S01 AC26-00001S
P2
P1
NB2
NB1
15 14 13 12 11 10 9 8 7 6 5
D1SS12 SG45
C1SS15 1000/10V
C902A 100NF
AL3.3V TO DVD MAIN
D1SS13 SG45
L1SS05 10UH
C1SS16 470/10V
5.8V TO DVD MAIN
D1SS14 SG45
C1SS18 1000/10V
L1SS03 10UH
C1SS17 470/10V
AL5.8V TO SYSCON
D1SS15 F1T4
33V TO TM
C1SS19 10/100V
C1SS20 222
R1SS36 10(2W)
BD1SS3 BEAD
D1SS16 UG200
L1SS04 10UH
C1SS21 100/25V
C1SS22 330/25V
AL15V
BD1SS2 BEAD
D1SS17 F1T4
C1SS23 330/50V
24V C.M.B+
D1SS18 F1T4
C1SS24 470/10V
BD1SS4 BEAD
C1SS25 470/10V
AL5V TO TIMER
D1SS19 F1T4
C1SS26 100/25V
AL9V
R1SS34 3K/F
R1SS31 470
R1SS32 1K
C
E
A
K
IC1S02 PC123F /PS2561
R1SS33 1K
C1SS27 100NF
IC1S03 431
K R A
PRECISION REFERENCE
R1SS35 2.2K/F
SMPS BLOCK

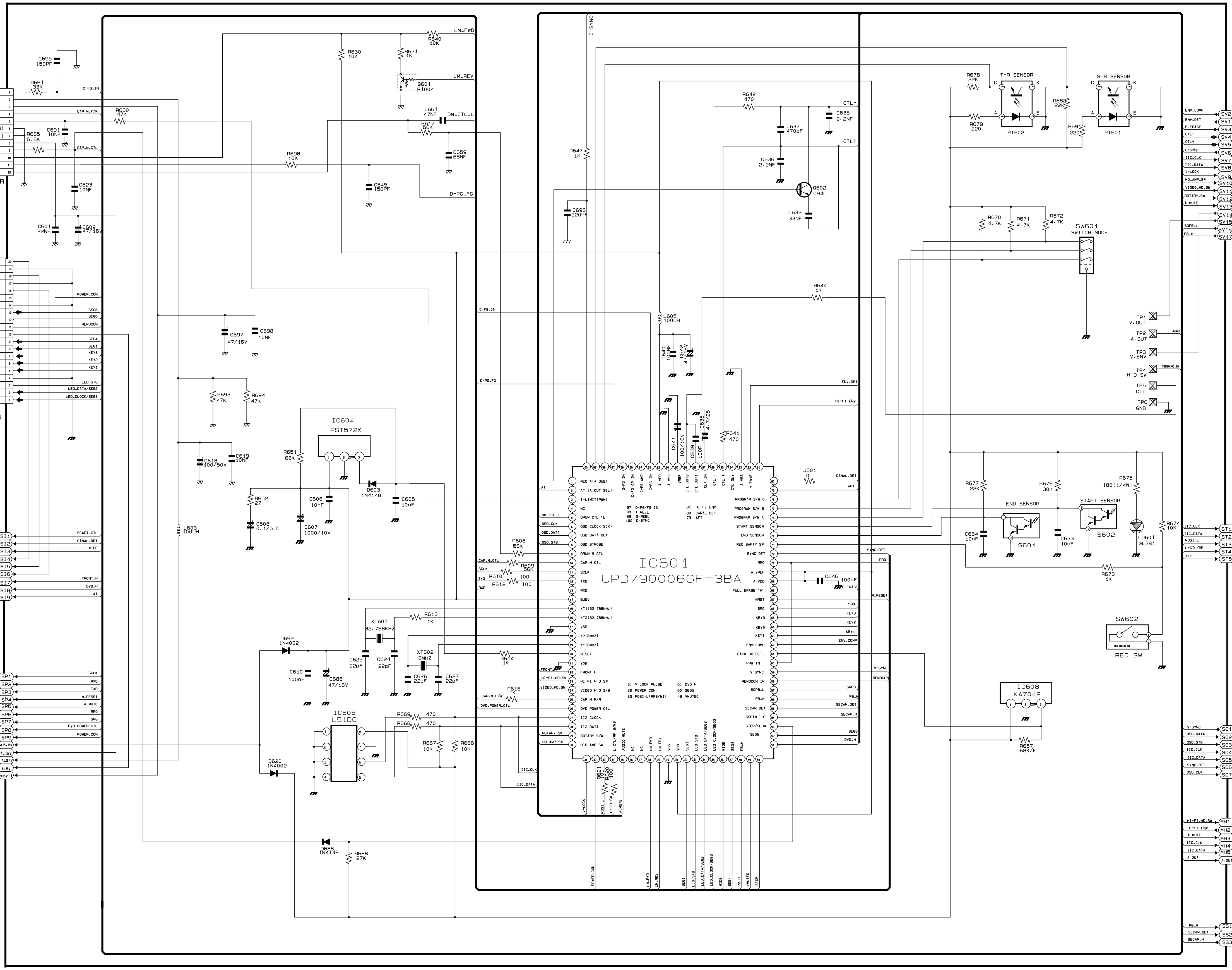
10-2 Power Drive


SMPS(DVD)
AL3.3V
SMPS(DVD)
5.8V
SMPS(VCR)
AL5.8V
SMPS(VCR)
33V
SMPS(VCR)
AL15V
SMPS(VCR)
24V
SMPS(VCR)
AL5V
SMPS(VCR)
AL9V
R1P120 560(1/4W)
R1P109 150
Q1P107 C2328
Q1P108 KSR2001
C1P112 4.7/50
ZD1P05 MTZJ12B
D1P107 1N4148
C1P111 10/25V
Q1P109 KSC945
C1P113 1/50
R1P110 2.2K
R1P111 470(1/4W)
Q1P110 C2328
Q1P111 C2328
C1P116 4.7/50
ZD1P06 MTZJ5.1B
D1P108 1N4148
C1P114 10/16V
C1P115 10/16V
R1P112 10
Q1P102 KSR2001
Q1P103 KSC945
R1P104 2.2K
C1P104 1/50
Q1P105 C2328
C1P107 4.7/50
C1P109 10/16V
Q1P106 C2328
ZD1P04 MTZJ5.1B
D1P105 1N4148
C1P110 10/16V
R1P101 560(1/4W)
R1P103 150
Q1P101 C2328
C1P102 4.7/50
ZD1P02 MTZJ12B
D1P103 1N4148
C1P103 10/35V
D1P101 1N4002
D1P102 1N4002
L1P101 BEAD
R1P105 75
Q1P104 C2328
C1P105 4.7/50
ZD1P03 MTZJ9.1B
D1P104 1N4148
C1P106 10/35V
CN01
1 A-GND
2 B
3 A-GND
4 G
5 A-GND
6 R
7 A-GND
8 DVD VIDEO OUT
9 AL3.3V
10 AL3.3V
11 AL3.3V
12 DVD AUDIO L OUT
13 GND
14 DVD AUDIO R OUT
15 PC5V
16 PC5V
17 PC5V
18 PC5V
19 PC12V
20 PC12V
21 PC12V
22 GND
23 GND
24 AL12V
25 M-RESET
26 DATA OUT
27 DATA IN
28 CLOCK
29 SRQ
30 RRQ
31 D-GND
32 A-MUTE
33 D-GND
FROM/TO DVD AUDIO/VIDEO CN4
SP5 A_MUTE
SP6 RRQ
SP7 SRQ
SP1 SCLK
SP2 RXD
SP3 TXD
SP4 M_RESET
SP8 DVD_POWER_CTL
SP9 POWER_CON
FROM/TO SYSCON
TO I/O
PI5 DVD.A.R.OUT
PI4 DVD.A.L.OUT
PI6 DVD_V_IN
PI1 DVD.V.B
PI2 DVD.V.G
PI3 DVD.V.R
AL5.8V AL5.8V(SYSCON)
PC5V_1 PC5V_1(TM.A2/NICAM.SYSCON)
PC5V PC5V(SECAM.OSD)
AL33V AL33V(TM)
AL12V D.M B+(I/O)
AL24V C.M B+
AL5V AL5V(VFD)-TIMER
PC9V PC9V(HI-FI.A2/NICAM)

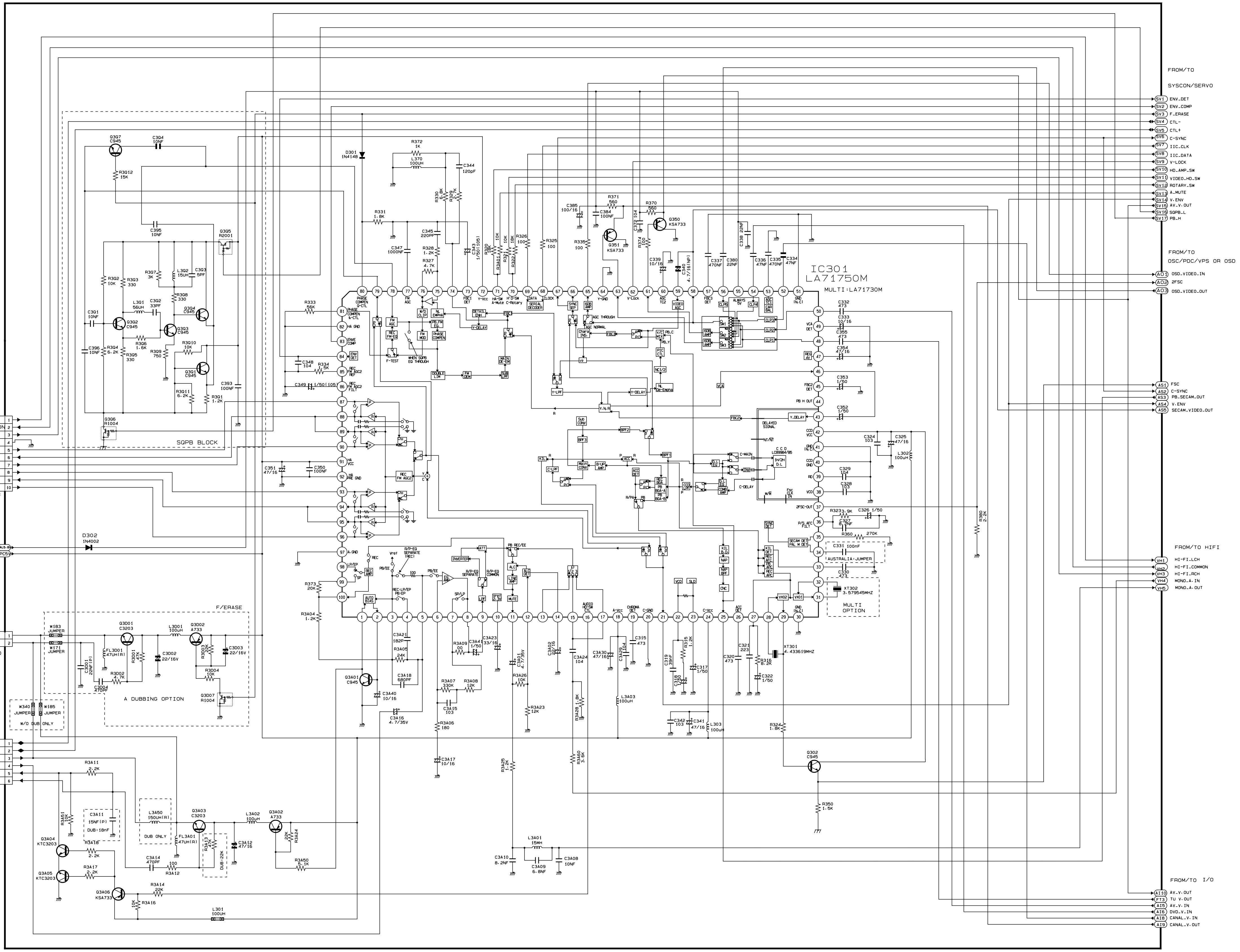
10-3 Function-Timer


DT701
DVD
3D
dts
TITLE
CHAP
VCR
COPY
STEREO
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
GRI1
GRI2
GRI3
GRI4
GRI5
GRI6
GRI7
SEG5
SEG4
SEG3
SEG7
SEG6
SEG2
SEG1
SEG11
SEG8
SEG9
SEG10
JK701
AUX A L IN
AUX A R IN
AUX V IN
C713
1NF
C712
1NF
R710
510
LD701
GREEN
Q702
R1004
RM701
GP1U281R
GND
VCC
OUT
L701
100UH
R701
10K
47/16
100NF
C703
1NF
C701
C702
AGND
CN701
AUX V IN
GND
AUX A L IN
GND
AUX.A.R.IN
POWER-CON
GND
SEG6
SEG5
REMOCON
AL5V
SEG4
SEG1
KEY3
KEY2
KEY1
GND
STB
DATA/SEG2
CLK/SEG3
R702
1K
R704
1K
R706
1K
R703
15K
R705
15K
R707
15K
DGND
G1
G2
G3
G4
G5
G6
G7
S11
S10
IC702
Timing Generator
Control
Display Memory
Dimming Circuit
OSC
Serial Data Interface
Segment Driver/Grid Driver
LED DATA
LED CLK
LED STB
R732
51K
S1
S2
S3
S4
S5
S6
S7
S8
S9
C704
1000/10V
KS5
KS4
KS3
KS2
KS1
1N4148
D702
D703
D704
D705
D706
REC
SW702
PLAY
SW703
SELECT
SW704
FF
SW705
STOP
SW706
KEY3
POWER
SW708
TEST
SW709
OPEN/CLOSE
SW710
CH UP
SW711
CH DOWN
SW712
KEY2
EJECT
SW714
REW
SW715
COPY
SW716
KEY1

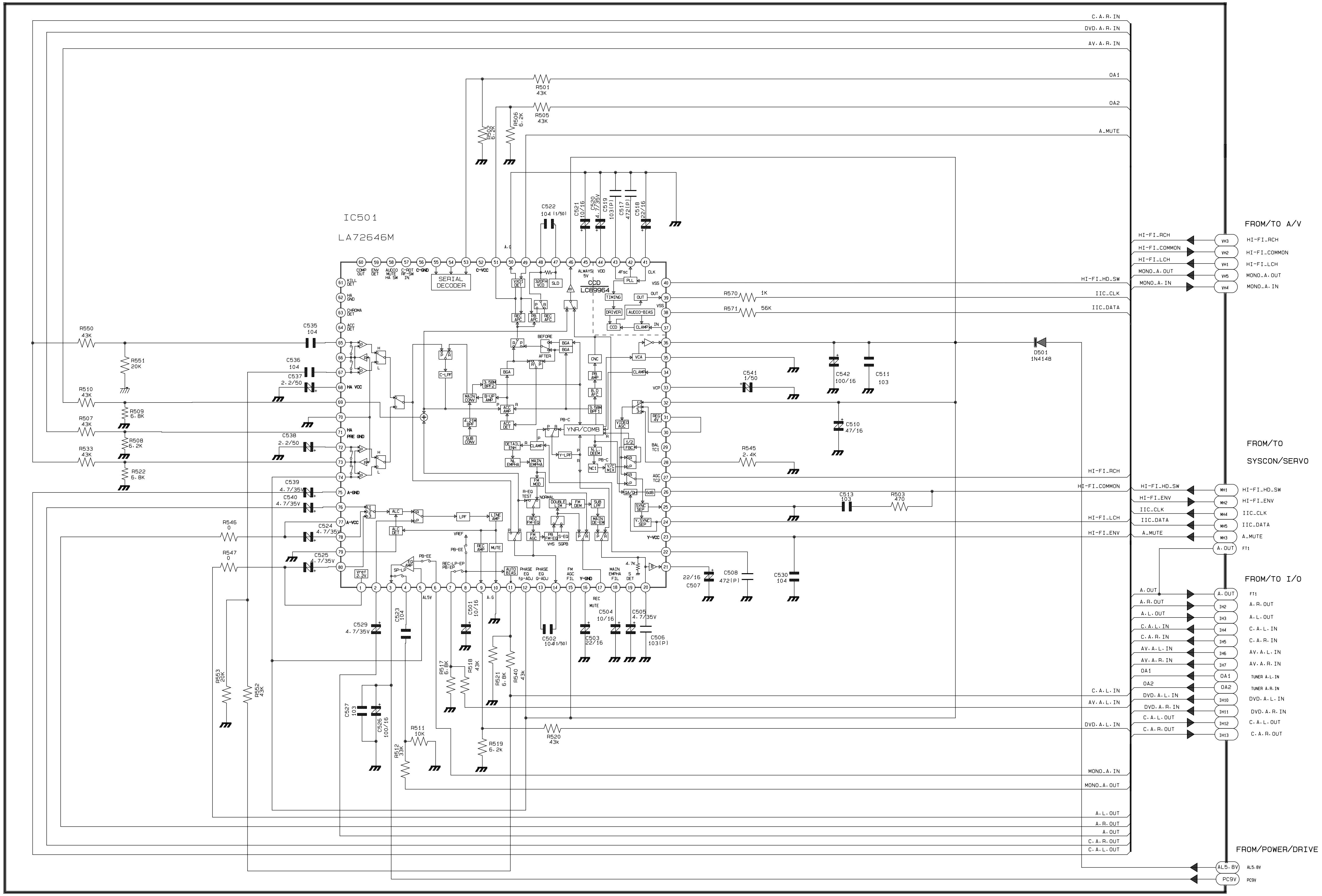
10-4 System Control/Servo


CN604
C-FG
CM B+
PC5V
CAP F/R
I-LIMIT
GFND (MOTOR)
GND (SIGNAL)
LM B+(12V)
CM CTL
LM F/R
D-PG/FG
DM CTL
FROM/TO C/MOTOR
CN603
AUX V.IN
GND
AUX A.L IN
AUX A.R IN
POWER-CON
SEG6
SEG5
REMOCON
AL 5V
SEG4
SEG1
KEY3
KEY2
KEY1
LED STB
LED DATA/SEG2
LED CLOCK/SEG3
FROM/TO TIMER CN701
FROM/TO I/O
SCART_CTL
CANAL_DET
WIDE
AUX_V.IN
AUX_A.L.IN
AUX_A.R.IN
FRONT_H
DVD_H
AT
FROM/TO POWER DRIVE
SCLK
RXD
TXD
M.RESET
A.MUTE
RRQ
SRQ
DVD_POWER_CTL
POWER_CON
AL5.8V
AL12V
AL24V
AL5V
PC5V_1
IC604 PST572K
IC605 L51DC
IC601 UPD790006GF-3BA
IC608 KA7042
XT601 32.768KHz
XT602 8MHZ
Q601 R1004
Q602 C945
D603 1N4148
D692 1N4002
D620 1N4002
D688 1N4148
L603 100UH
L605 100UH
J601 0
T-R SENSOR
S-R SENSOR
PT602
PT601
SW601 SWITCH-MODE
TP1 V.OUT
TP2 A.OUT
TP3 V.ENV
TP4 H'D SW
TP5 CTL
TP6 GND
END SENSOR
START SENSOR
S601
S602
LD601 GL381
SW602 REC SW
FROM/TO A/V
ENV_COMP
ENV_DET
F_ERASE
CTL-
CTL+
C-SYNC
IIC_CLK
IIC_DATA
V-LOCK
HD_AMP_SW
VIDEO_HD_SW
ROTARY_SW
A_MUTE
V.ENV
AV_V.OUT
SGPB_L
PB_H
FROM/TO TM
POSI-L
L-CTL/RF
AFT
FROM/TO OSD
V-SYNC
OSD_DATA
OSD_STB
SYNC_DET
OSD_CLK
FROM/TO HI-FI
HI-FI_HD_SW
HI-FI_ENV
FTI
FROM/TO SECAM
SECAM_DET
SECAM_H

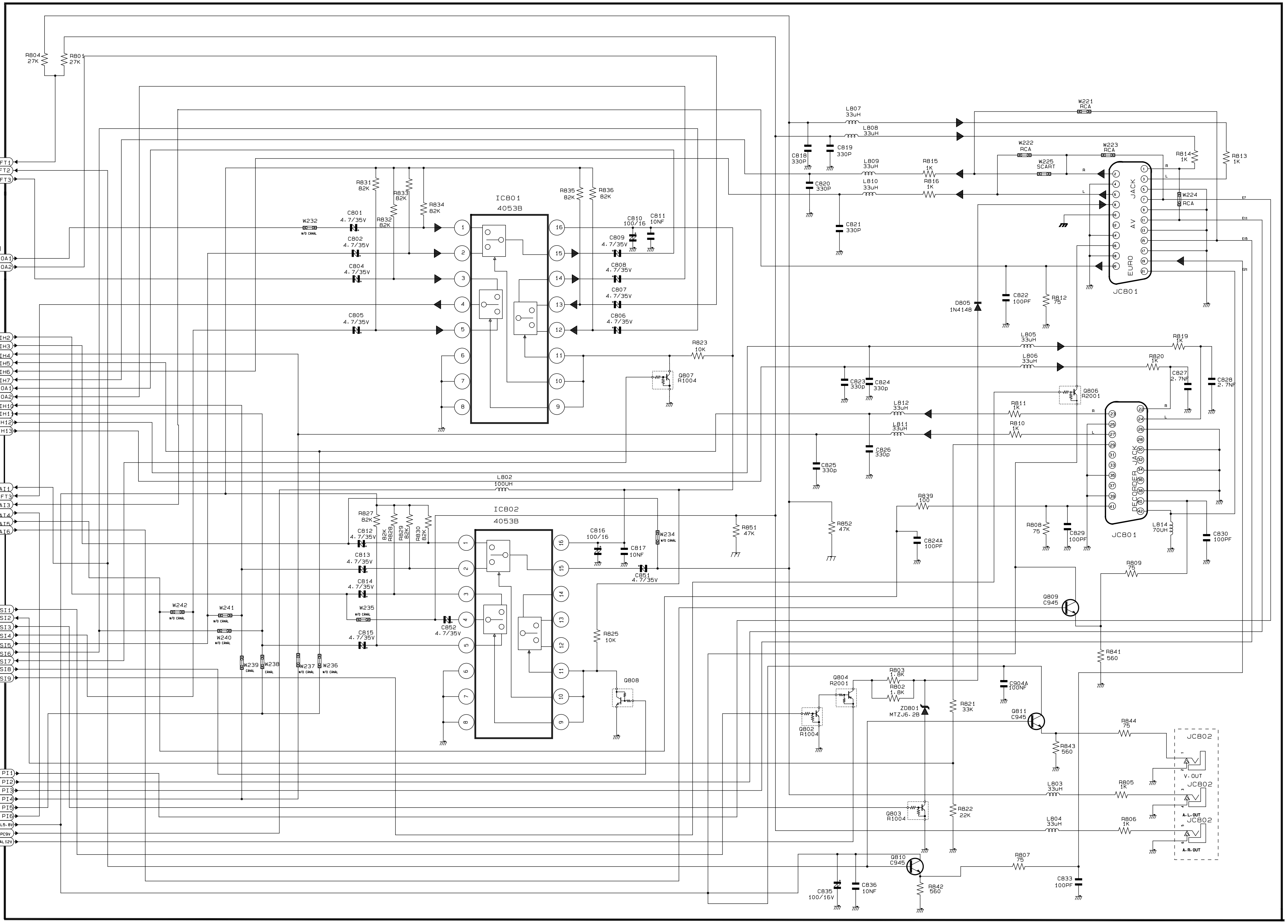
10-5 A/V


CN301
HI-FI L CH
HI-FI COMMON
HI-FI R CH
GND
SLP CH1
SLP COMMON
SLP CH2
SP CH2
SP COMMON
SP CH1
DRUM WAFER
SQPB BLOCK
AL5.8V
PC5V
FROM POWER
D302
1N4002
CN3A02
F/ERASE
F/ERASE
TO F/E HEAD
F/ERASE
A DUBBING OPTION
W/O DUB ONLY
CN3A01
CTL(-)
CTL(+)
A/ERASE
PB
REC
A/ERASE
FROM/TO
A/C HEAD
DUB ONLY
IC301
LA71750M
MULTI:LA71730M
MULTI OPTION
XT302
3.579545MHZ
XT301
4.433619MHZ
FROM/TO
SYSCON/SERVO
SV1 ENV.DET
SV2 ENV.COMP
SV3 F.ERASE
SV4 CTL-
SV5 CTL+
SV6 C-SYNC
SV7 IIC.CLK
SV8 IIC.DATA
SV9 V-LOCK
SV10 HD.AMP.SW
SV11 VIDEO.HD.SW
SV12 ROTARY.SW
SV13 A.MUTE
SV14 V.ENV
SV15 AV.V.OUT
SV16 SQPB.L
SV17 PB.H
FROM/TO
OSC/PDC/VPS OR OSD
AO1 OSD.VIDEO.IN
AO2 2FSC
AO3 OSD.VIDEO.OUT
AS1 FSC
AS2 C-SYNC
AS3 PB.SECAM.OUT
AS4 V.ENV
AS5 SECAM.VIDEO.OUT
FROM/TO HIFI
VH1 HI-FI.LCH
VH2 HI-FI.COMMON
VH3 HI-FI.RCH
VH4 MONO.A.IN
VH5 MONO.A.OUT
FROM/TO I/O
AI10 AV.V.OUT
FT3 TU V.OUT
AI5 AV.V.IN
AI6 DVD.V.IN
AI8 CANAL.V.IN
AI9 CANAL.V.OUT

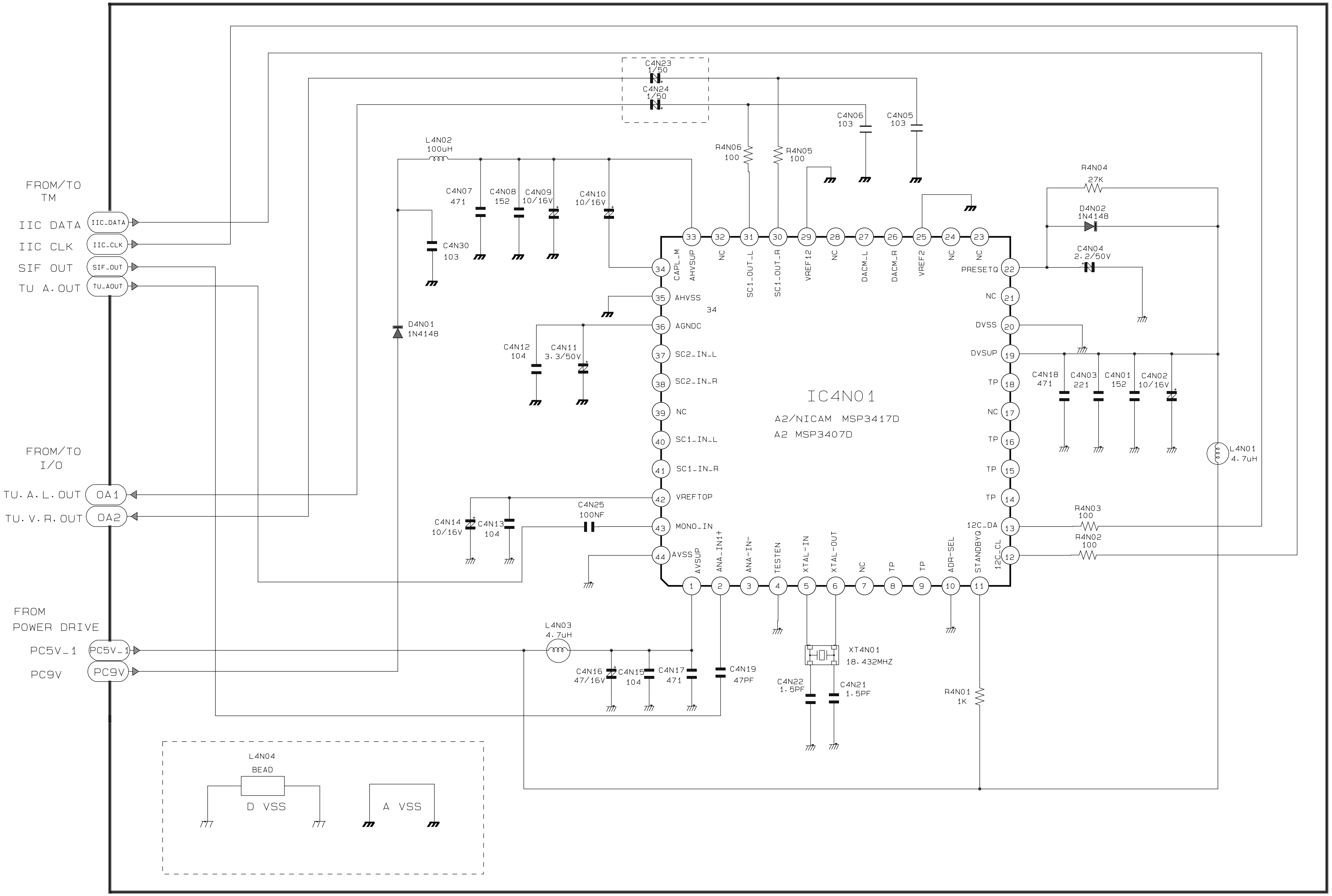
10-6 Hi-Fi/MTS


IC501
LA72646M
SERIAL DECODER
CCD LC89964
YNR/COMB
C.A.R.IN
DVD.A.R.IN
AV.A.R.IN
OA1
OA2
A.MUTE
R501 43K
R505 43K
R506 6.2K
C522 104
C521 10/16
C520 4.7/35V
C519 103(P)
C517 472(P)
C518 22/16
R550 43K
R551 20K
R510 43K
R509 6.8K
R507 43K
R508 6.2K
R533 43K
R522 6.8K
C535 104
C536 104
C537 2.2/50
C538 2.2/50
C539 4.7/35V
C540 4.7/35V
R546 0
R547 0
C524 4.7/35V
C525 4.7/35V
R570 1K
R571 56K
C541 1/50
C542 100/16
C511 103
C510 47/16
R545 2.4K
C513 103
R503 470
D501 1N4148
C507 22/16
C508 472(P)
C530 104
C529 4.7/35V
C523 104
C501 10/16
C502 104(1/50)
C503 22/16
C504 10/16
C505 4.7/35V
C506 103(P)
R517 6.8K
R518 43K
R521 6.8K
R540 43K
R553 20K
R552 43K
C527 103
C526 100/16
R511 10K
R512 33K
R519 6.2K
R520 43K
FROM/TO A/V
HI-FI.RCH
HI-FI.COMMON
HI-FI.LCH
MONO.A.OUT
MONO.A.IN
HI-FI.HD.SW
IIC.CLK
IIC.DATA
FROM/TO SYSCON/SERVO
HI-FI.ENV
A.OUT
FROM/TO I/O
A.R.OUT
A.L.OUT
C.A.L.IN
C.A.R.IN
AV.A.L.IN
AV.A.R.IN
TUNER A.L.IN
TUNER A.R.IN
DVD.A.L.IN
DVD.A.R.IN
C.A.L.OUT
C.A.R.OUT
FROM/POWER/DRIVE
AL5.8V
PC9V

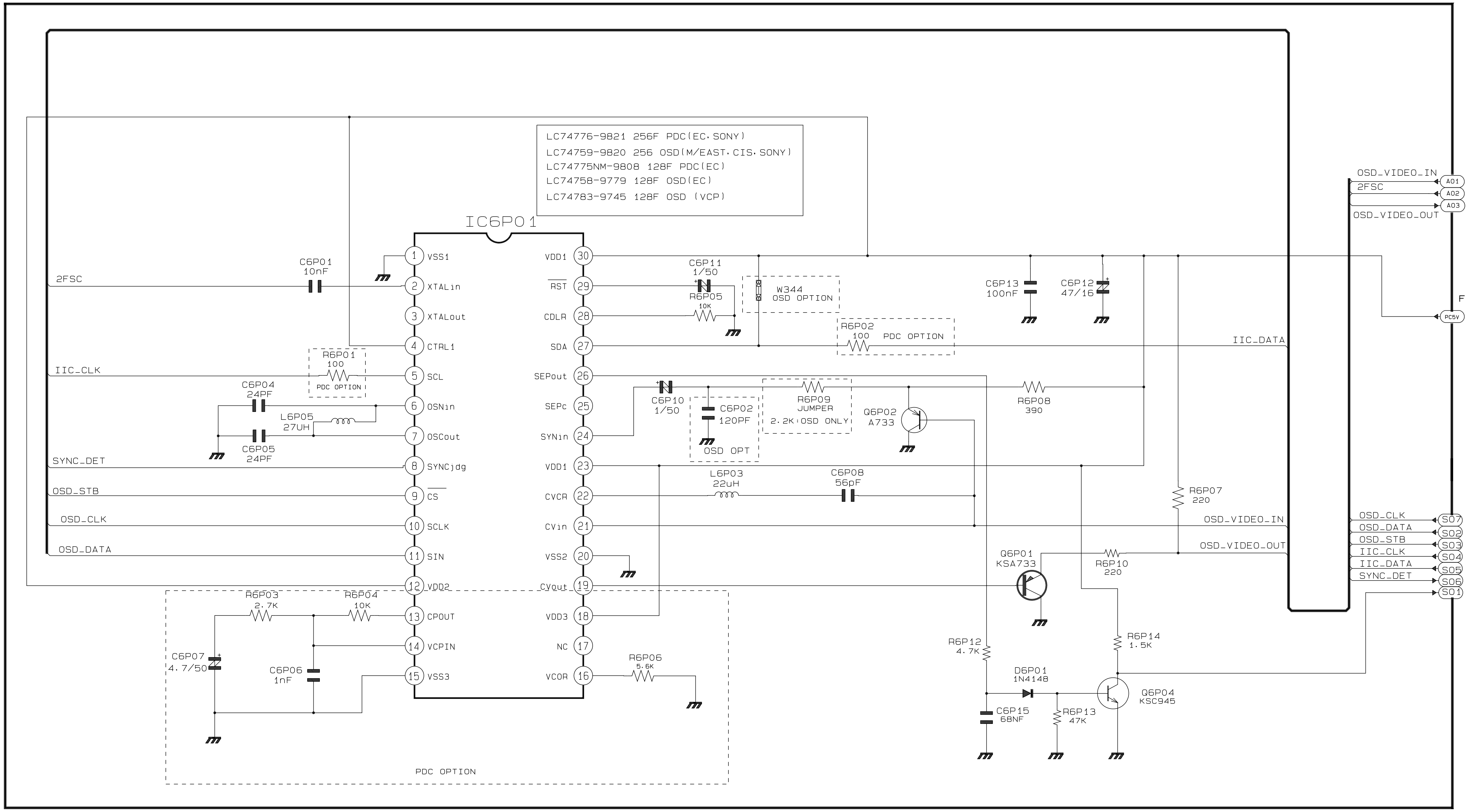
10-7 Input-Output


FROM/TO TM
RF A.IN
AV_V.OUT
TU V.OUT
FT1
FT2
FT3
FRON A2/NICAM
TU A.L OUT
TU A.R OUT
OA1
OA2
FROM/TO HI-FI
A.R.OUT
A.L.OUT
C.A.L.IN
C.A.R.IN
AV.A.L.IN
AV.A.R.IN
TUNER A.L IN
TUNER A.R IN
DVD.A.L.IN
DVD.A.R.IN
C.A.L.OUT
C.A.R.OUT
IH2
IH3
IH4
IH5
IH6
IH7
IH10
IH1
IH12
IH13
FROM/TO
A/V
AV_V.OUT
TU V.IN
AV_V.IN
DVD_V_IN
CANAL_V.IN
CANAL_V.OUT
AI1
AI3
AI4
AI5
AI6
FROM/TO
SYSCON/SERVO
SCART_CTL
CANAL_DET
WIDE
AUX_V.IN
AUX_A.L.IN
AUX_A.R.IN
FRONT_H
DVD_H
AT
SI1
SI2
SI3
SI4
SI5
SI6
SI7
SI8
SI9
FROM
POWER DRIVE
DVD.V.B
DVD.V.G
DVD.V.R
DVD.A.L.OUT
DVD.A.R.OUT
DVD_V_IN
AL5.8V
PC9V
AL12V
PI1
PI2
PI3
PI4
PI5
PI6
IC801
4053B
IC802
4053B
R804 27K
R801 27K
R831 82K
R832 82K
R833 82K
R834 82K
R835 82K
R836 82K
W232
C801 4.7/35V
C802 4.7/35V
C804 4.7/35V
C805 4.7/35V
C806 4.7/35V
C807 4.7/35V
C808 4.7/35V
C809 4.7/35V
C810 100/16
C811 10NF
R823 10K
Q807 R1004
L802 100UH
R827 82K
R828 82K
R829 82K
R830 82K
C812 4.7/35V
C813 4.7/35V
C814 4.7/35V
C815 4.7/35V
C852 4.7/35V
C816 100/16
C817 10NF
C851 4.7/35V
W234
W235
W236
W237
W238
W239
W240
W241
W242
R825 10K
Q808
R851 47K
R852 47K
L807 33uH
L808 33uH
L809 33uH
L810 33uH
C818 330P
C819 330P
C820 330P
C821 330P
R815 1K
R816 1K
W221 RCA
W222 RCA
W223 RCA
W224 RCA
W225 SCART
R814 1K
R813 1K
EURO AV JACK
JC801
D805 1N4148
C822 100PF
R812 75
L805 33uH
L806 33uH
R819 1K
R820 1K
C823 330p
C824 330p
C827 2.7NF
C828 2.7NF
Q806 R2001
L812 33uH
L811 33uH
R811 1K
R810 1K
C825 330p
C826 330p
DECODER JACK
JC801
R839 100
C824A 100PF
R808 75
C829 100PF
L814 70UH
C830 100PF
R809 75
Q809 C945
R841 560
Q804 R2001
R803 1.8K
R802 1.8K
ZD801 MTZJ6.2B
Q802 R1004
C904A 100NF
R821 33K
Q811 C945
R844 75
R843 560
JC802
V.OUT
L803 33uH
R805 1K
A.L.OUT
Q803 R1004
R822 22K
L804 33uH
R806 1K
A.R.OUT
Q810 C945
R807 75
C835 100/16V
C836 10NF
R842 560
C833 100PF

10-8 A2/NICAM


FROM/TO
TM
IIC DATA
IIC_DATA
IIC CLK
IIC_CLK
SIF OUT
SIF_OUT
TU A.OUT
TU_AOUT
FROM/TO
I/O
TU.A.L.OUT
OA1
TU.V.R.OUT
OA2
FROM
POWER DRIVE
PC5V_1
PC5V_1
PC9V
PC9V
C4N23
1/50
C4N24
1/50
C4N06
103
C4N05
103
R4N06
100
R4N05
100
L4N02
100uH
C4N07
471
C4N08
152
C4N09
10/16V
C4N10
10/16V
C4N30
103
D4N01
1N4148
R4N04
27K
D4N02
1N4148
C4N04
2.2/50V
33 AHVSUP
32 NC
31 SC1_OUT_L
30 SC1_OUT_R
29 VREF12
28 NC
27 DACM_L
26 DACM_R
25 VREF2
24 NC
23 NC
34 CAPL_M
35 AHVSS
34
36 AGNDC
37 SC2_IN_L
38 SC2_IN_R
39 NC
40 SC1_IN_L
41 SC1_IN_R
42 VREFTOP
43 MONO_IN
44 AVSS
1 AVSUP
2 ANA_IN1+
3 ANA-IN-
4 TESTEN
5 XTAL-IN
6 XTAL-OUT
7 NC
8 TP
9 TP
10 ADR-SEL
11 STANDBYQ
12 12C_CL
13 12C_DA
14 TP
15 TP
16 TP
17 NC
18 TP
19 DVSUP
20 DVSS
21 NC
22 PRESETQ
C4N12
104
C4N11
3.3/50V
IC4N01
A2/NICAM MSP3417D
A2 MSP3407D
C4N18
471
C4N03
221
C4N01
152
C4N02
10/16V
L4N01
4.7uH
R4N03
100
R4N02
100
C4N14
10/16V
C4N13
104
C4N25
100NF
L4N03
4.7uH
C4N16
47/16V
C4N15
104
C4N17
471
C4N19
47PF
XT4N01
18.432MHZ
C4N22
1.5PF
C4N21
1.5PF
R4N01
1K
L4N04
BEAD
D VSS
A VSS

10-9 OSD/VPS/PDC


LC74776-9821 256F PDC(EC,SONY)
LC74759-9820 256 OSD(M/EAST,CIS,SONY)
LC74775NM-9808 128F PDC(EC)
LC74758-9779 128F OSD(EC)
LC74783-9745 128F OSD (VCP)
IC6P01
1 VSS1
2 XTALin
3 XTALout
4 CTRL1
5 SCL
6 OSNin
7 OSCout
8 SYNCjdg
9 CS
10 SCLK
11 SIN
12 VDD2
13 CPOUT
14 VCPIN
15 VSS3
30 VDD1
29 RST
28 CDLR
27 SDA
26 SEPout
25 SEPc
24 SYNin
23 VDD1
22 CVCR
21 CVin
20 VSS2
19 CVout
18 VDD3
17 NC
16 VCOR
2FSC
C6P01 10nF
IIC_CLK
R6P01 100 PDC OPTION
C6P04 24PF
L6P05 27UH
C6P05 24PF
SYNC_DET
OSD_STB
OSD_CLK
OSD_DATA
R6P03 2.7K
R6P04 10K
C6P07 4.7/50
C6P06 1nF
PDC OPTION
C6P11 1/50
R6P05 10K
W344 OSD OPTION
R6P02 100 PDC OPTION
C6P10 1/50
C6P02 120PF
OSD OPT
R6P09 JUMPER 2.2K:OSD ONLY
Q6P02 A733
R6P08 390
L6P03 22uH
C6P08 56pF
R6P06 5.6K
C6P13 100nF
C6P12 47/16
IIC_DATA
R6P07 220
OSD_VIDEO_IN
OSD_VIDEO_OUT
Q6P01 KSA733
R6P10 220
R6P12 4.7K
R6P14 1.5K
D6P01 1N4148
C6P15 68NF
R6P13 47K
Q6P04 KSC945
FROM/TO AV
OSD_VIDEO_IN
2FSC
OSD_VIDEO_OUT
A01 OSD_VIDEO_IN
A02 2FSC
A03 OSD_VIDEO_OUT
FROM POWER DRIVE
PC5V PC5V
FROM/TO SYSCON/SERVO
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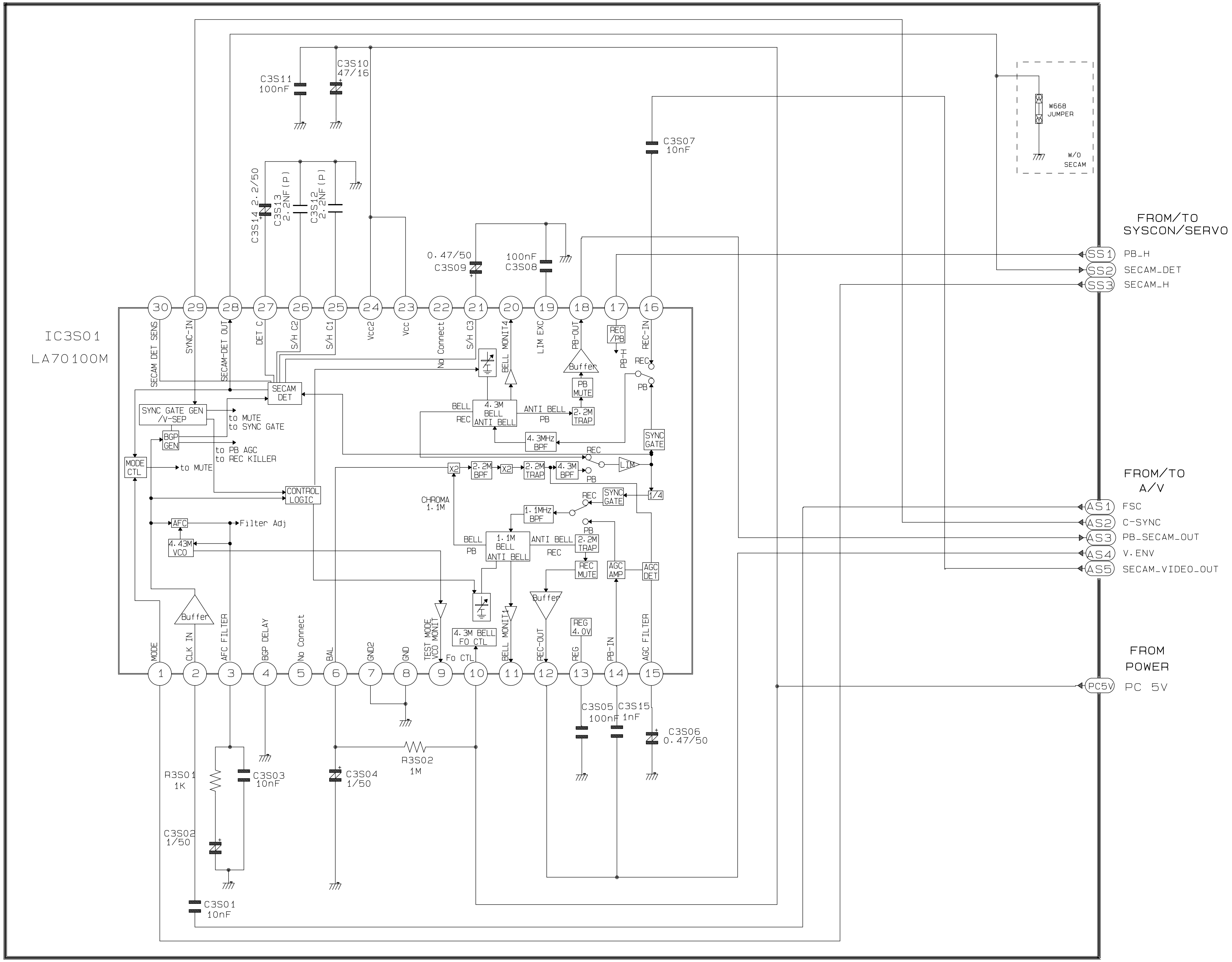
OSD_DATA
OSD_STB
IIC_CLK
IIC_DATA
SYNC_DET
S07 OSD_CLK
S02 OSD_DATA
S03 OSD_STB
S04 IIC_CLK
S05 IIC_DATA
S06 SYNC_DET
S01 V-SYNC

10-10 SECAM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2.2NF(P)
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JUMPER
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100nF
C3S08
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SS3
SECAM_H
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16
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SYNC-IN
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S/H C1
Vcc2
Vcc
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S/H C3
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/PB
PB-H
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/V-SEP
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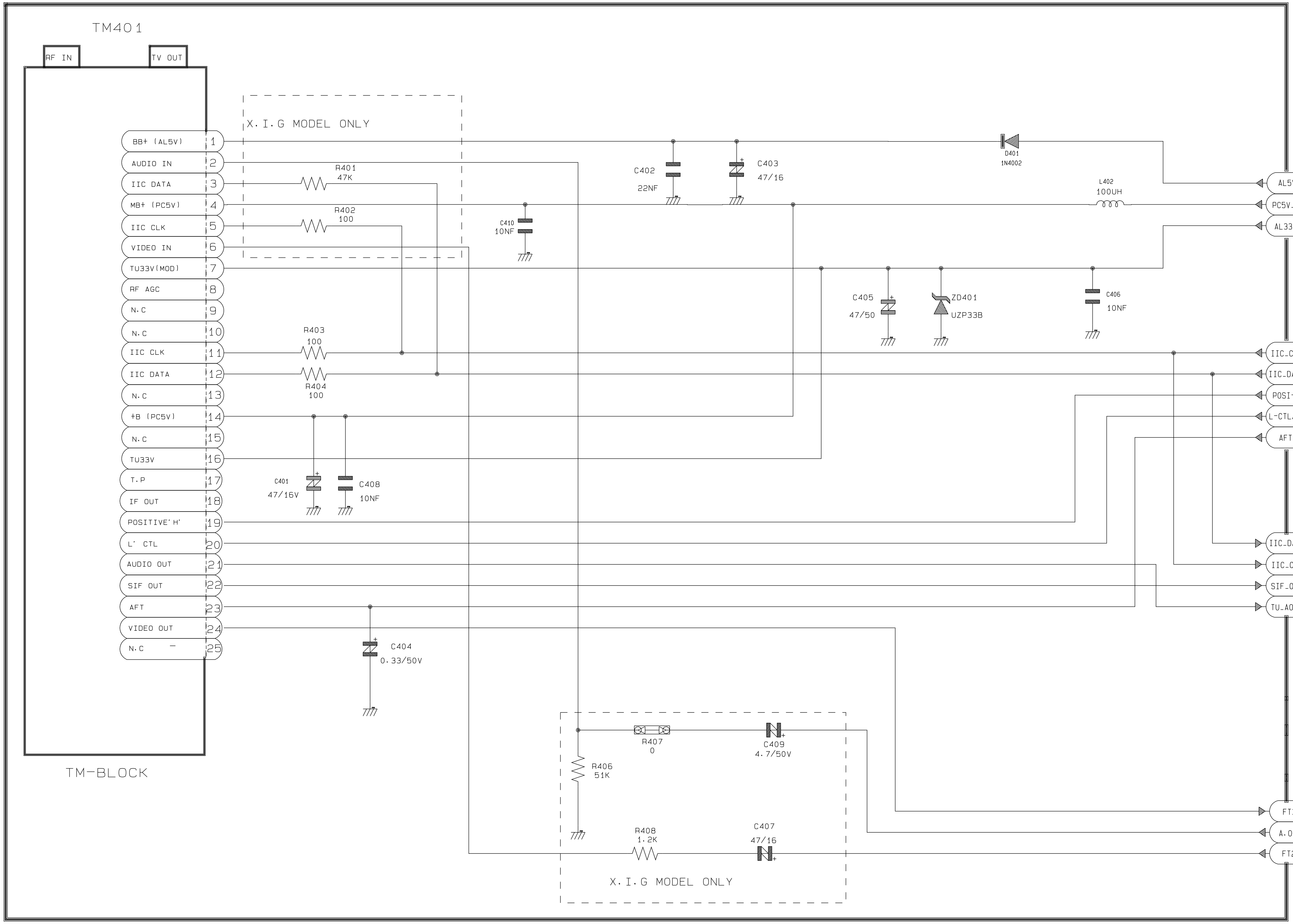
1/50
C3S01
10nF

10-11 TM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AUDIO IN 2
IIC DATA 3
MB+ (PC5V) 4
IIC CLK 5
VIDEO IN 6
TU33V(MOD) 7
RF AGC 8
N.C 9
N.C 10
IIC CLK 11
IIC DATA 12
N.C 13
+B (PC5V) 14
N.C 15
TU33V 16
T.P 17
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POSITIVE'H' 19
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AUDIO OUT 21
SIF OUT 22
AFT 23
VIDEO OUT 24
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C402
22NF
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IIC DATA
IIC_CLK
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SIF OUT
TU_AOUT
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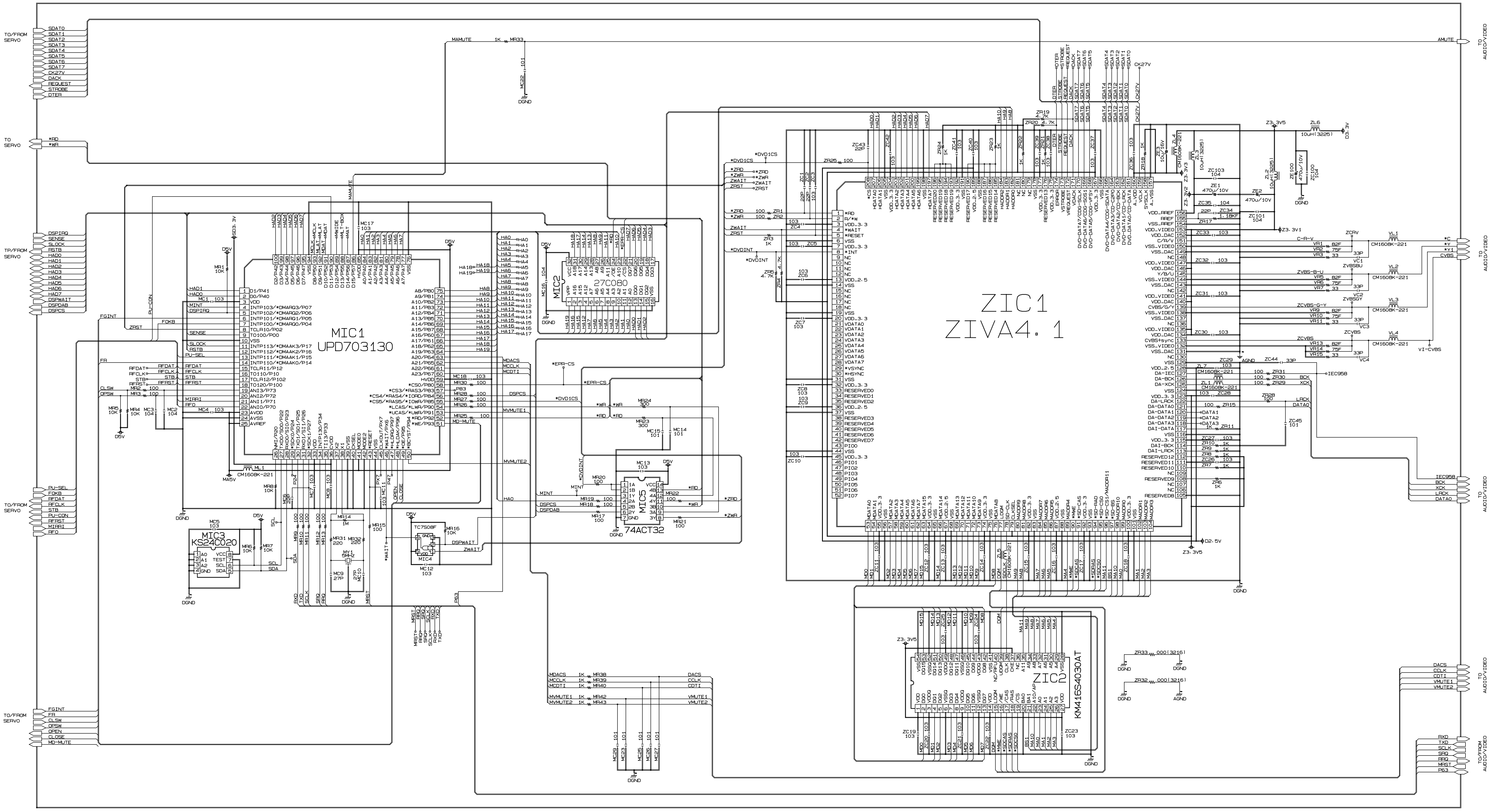
A.OUT
RF A.IN
FT2
AV_V.OUT

10-12 DVD Main-Micom/AV Decoder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AGND
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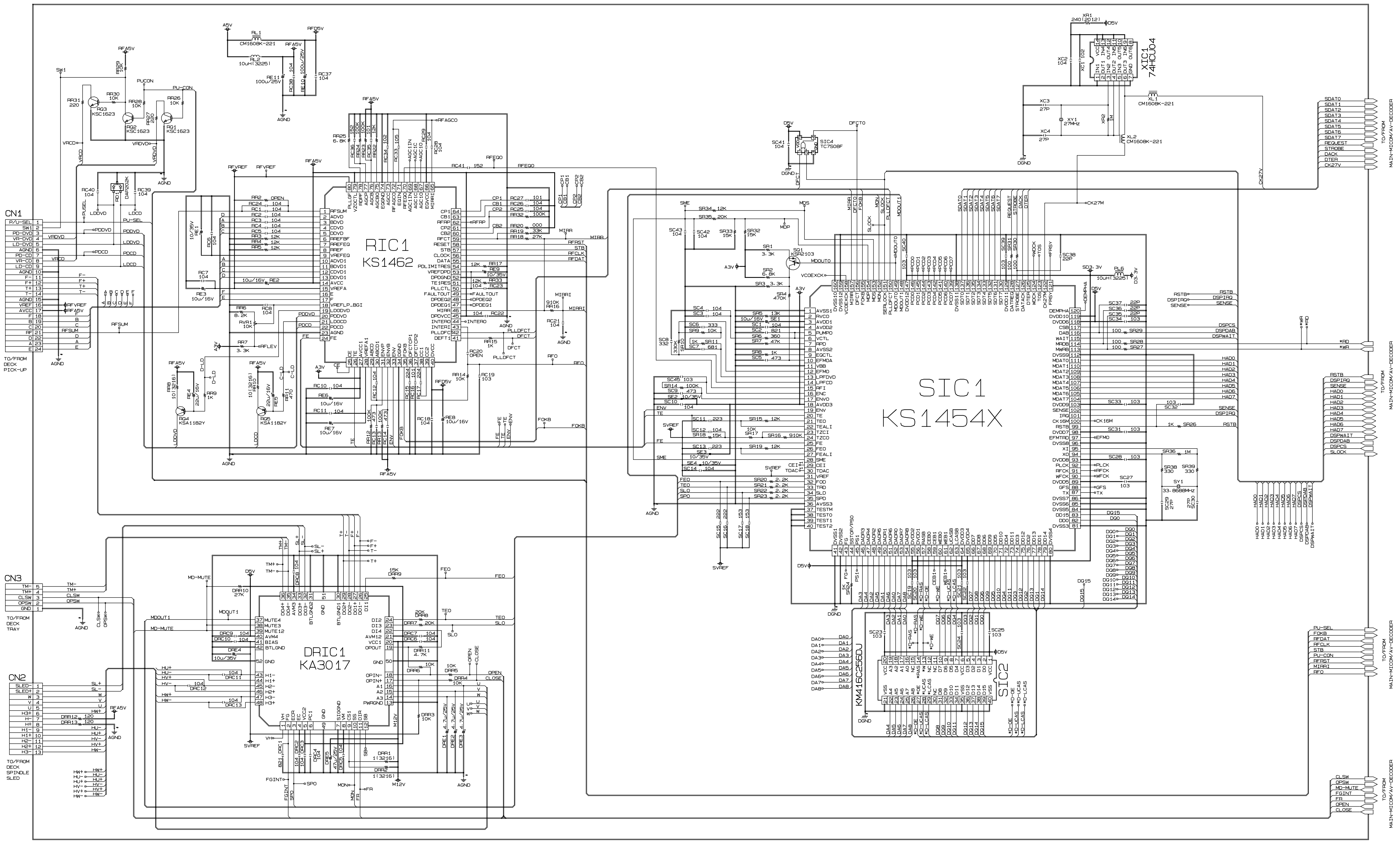
D3.3V
D2.5V
MAMUTE
AMUTE

10-13 DVD Servo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SIC1
KS1454X
DRIC1
KA3017
SIC2
KM416C256DJ
XIC1
74HCU04
SIC4
TC7S08F
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TM+
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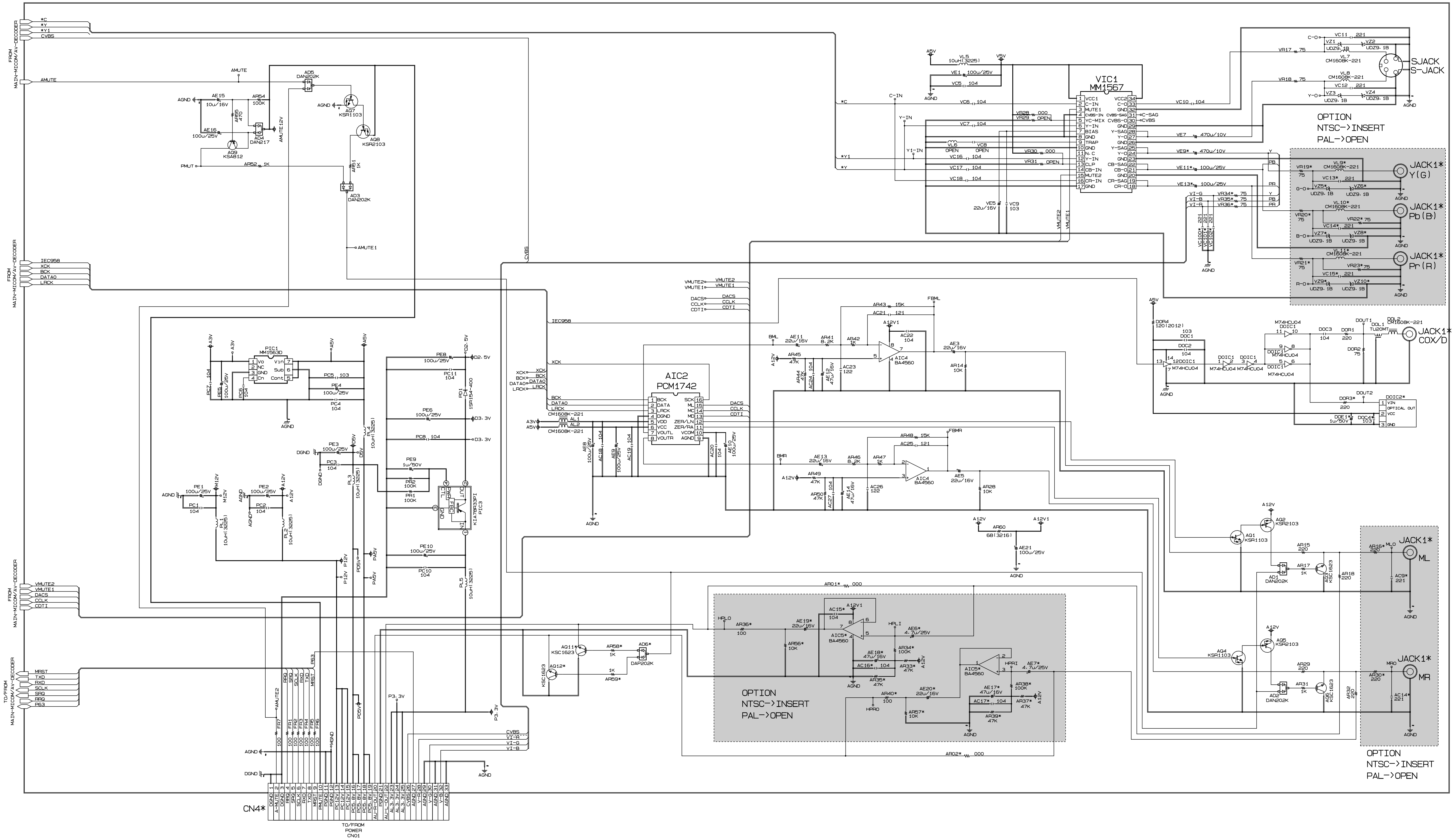
10-14 DVD Audio/Video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VMUTE1
DACS
CCLK
CDTI
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TXD
RXD
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SRQ
RRQ
P63
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AQ7 KSR1103
AQ8 KSR2103
AQ9 KSA812
AD4 DAN217
AD3 DAN202K
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AMUTE1
PIC1 MM1563Q
PIC3 KIA78R33PI
PCN1
CVBS
VIC1 MM1567
AIC2 PCM1742
AIC4 BA4560
AIC5* BA4560
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JACK1* Pb(B)
JACK1* Pr(R)
JACK1* COX/D
JACK1* ML
JACK1* MR
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DOIC2* OPTICAL OUT
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AQ6 KSC1623
AQ11* KSC1623
AQ12* KSC1623
AD6* DAP202K
AD1 DAN202K
AD2 DAN202K
AGND
DGND
A12V
A5V
A3V
D2.5V
D3.3V
P3.3V
CN4*
TO/FROM POWER CN01

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AC82-00023A

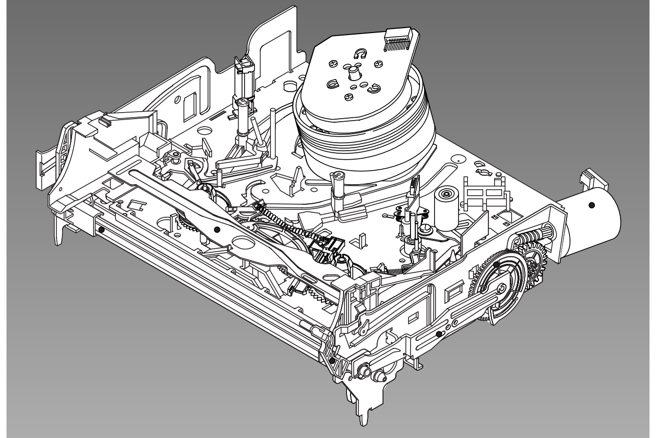
MECHANICAL MANUAL TS-10A DECK

TS-10A DECK

MECHANICAL Manual

◆ File with the SERVICE MANUAL.

TS-10 DECK



CONTENTS

1. Disassembly and Reassembly

2. Alignment and Adjustment

1. Disassembly and Reassembly

1-1 Deck Parts Locations

1-1-1 Top View

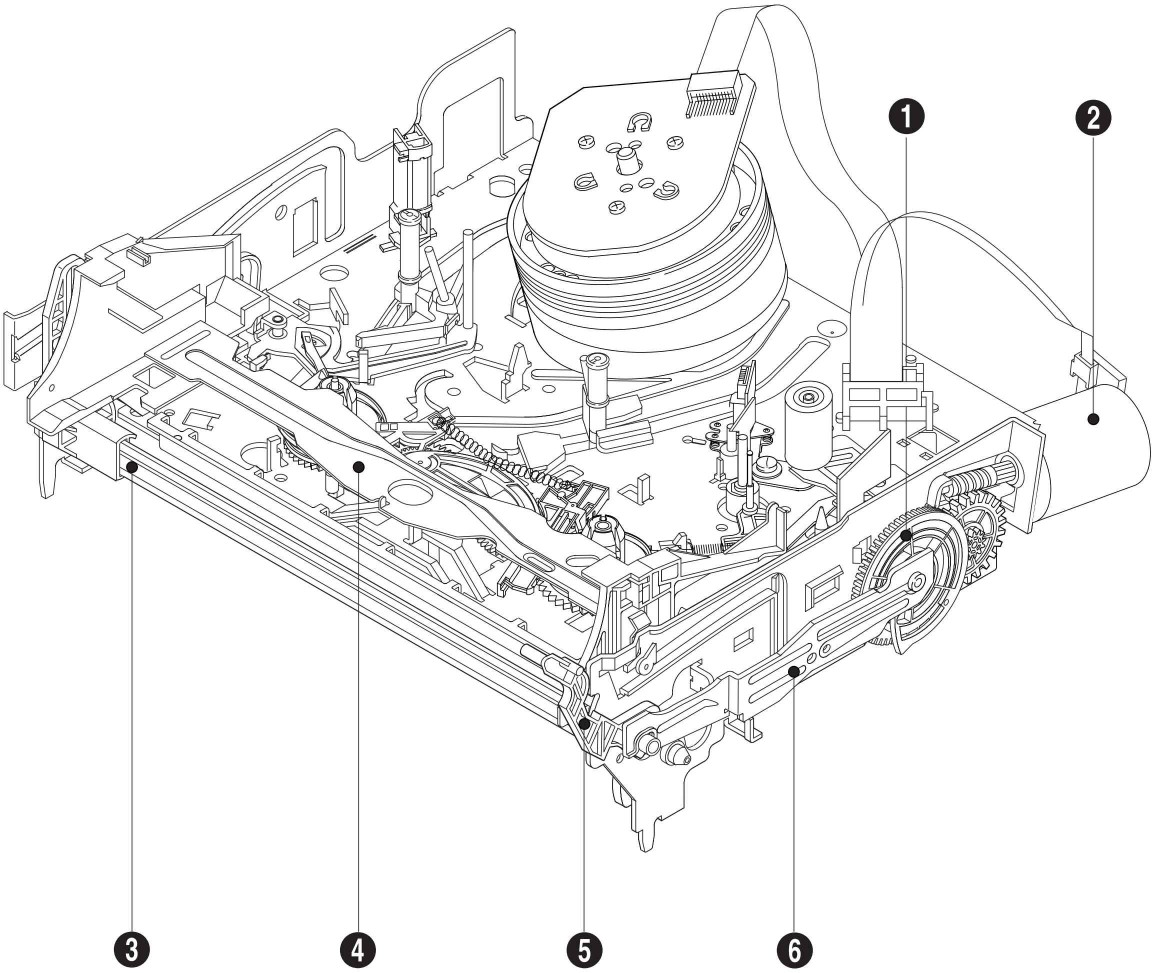


Fig. 1-1 Top parts Location-1

❶ GEAR FL CAM
❷ MOTOR LOADING ASS'Y
❸ LEVER FL ARM ASS'Y
❹ HOLDER FL CASSETTE ASS'Y
❺ LEVER FL DOOR
❻ SLIDER FL DRIVE

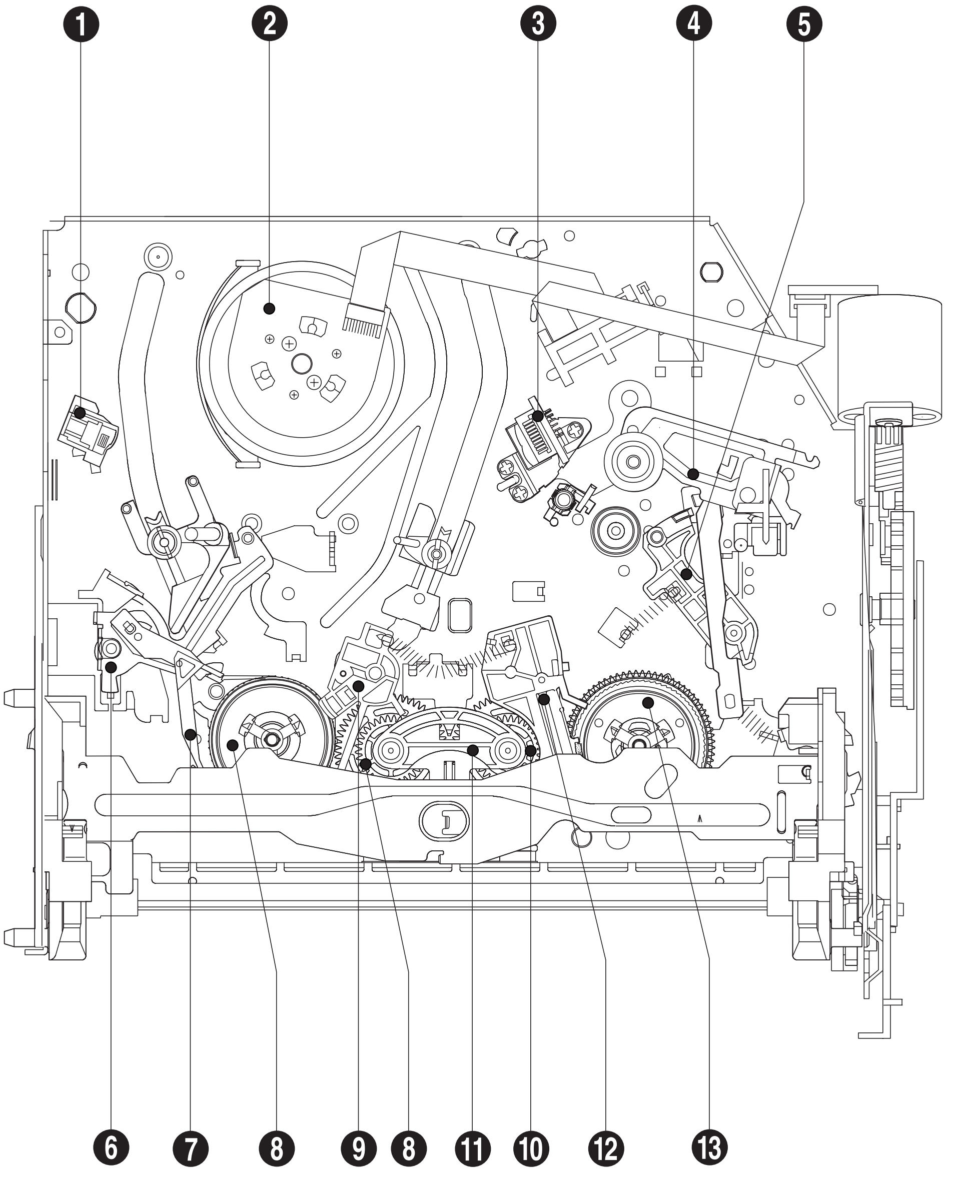


Fig. 1-2 Top Parts Location-2

❶ FE HEAD
❷ CYLINDER ASS'Y
❸ ACE HEAD ASS'Y
❹ LEVER UNIT PINCH ASS'Y
❺ LEVER #9 GUIDE ASS'Y
❻ LEVER TENSION ASS'Y
❼ BAND BRAKE ASS'Y
❽ DISK S REEL
❾ LEVER S BRAKE ASS'Y
❿ GEAR IDLE
⓫ LEVER IDLE
⓬ LEVER T BRAKE ASS'Y
⓭ DISK T REEL

1-1-2 Bottom View

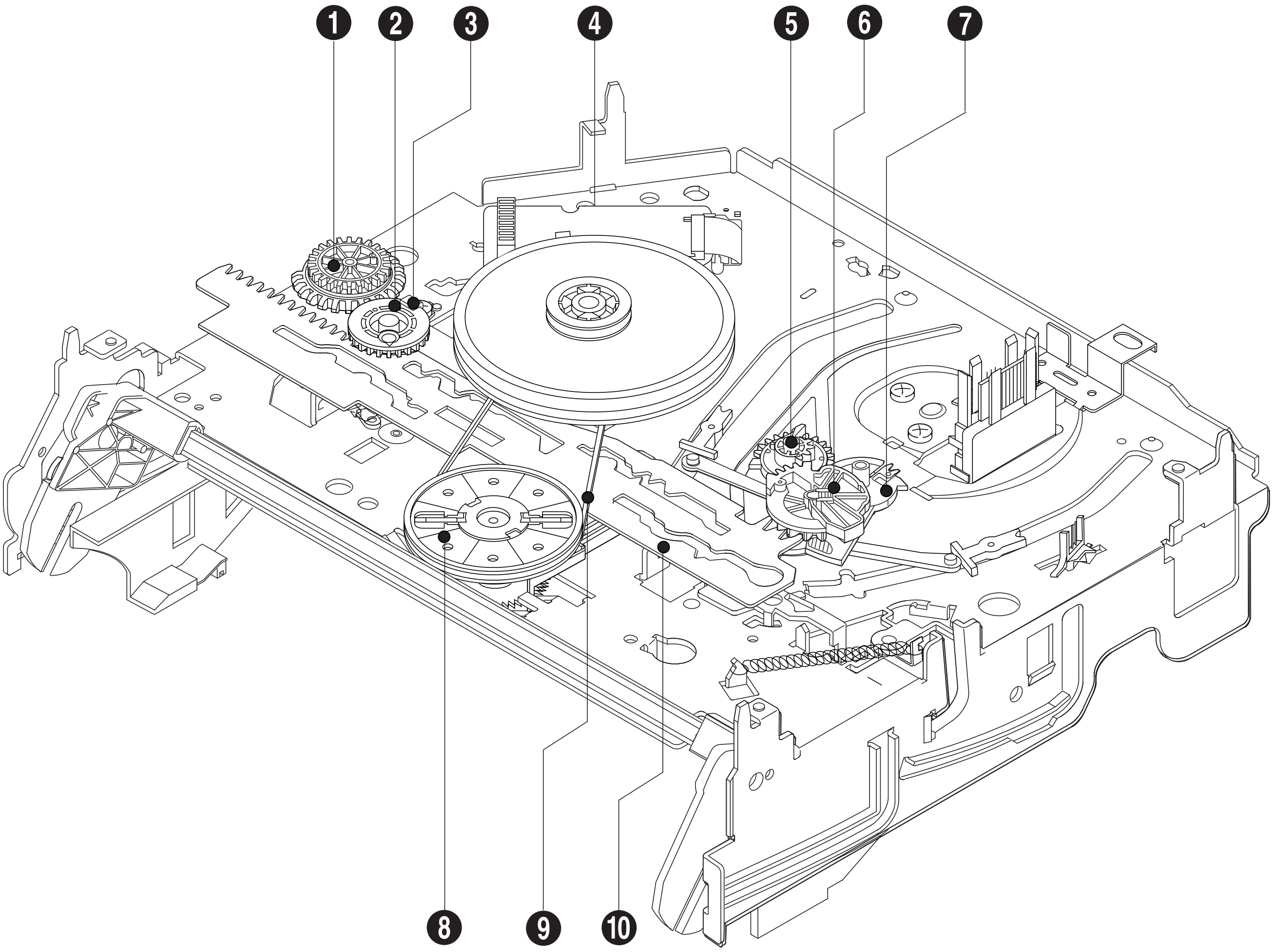


Fig. 1-3 Bottom Parts Location

❶ GEAR JOINT 1
❷ GEAR JOINT 2
❸ BRACKET GEAR
❹ MOTOR CAPSTAN ASS’Y
❺ LEVER T LOAD ASS’Y
❻ GEAR LOADING DRIVE
❼ LEVER S LOAD ASS’Y
❽ HOLDER CLUTCH ASS’Y
❾ BELT PULLEY
❿ SLIDER CAM

1-2 Main Deck

1-2-1 Holder FL Cassette Ass’y Removal

1) Pull the Holder FL Cassette Ass'y ❶ to the eject position.
2) Pull the Holder FL Cassette Ass'y ❶ as grasping the Holder FL Cassette Ass'y ❶ and Lever FL Cassette-R ❷ in the same time to release hooking from Main Base until the Boss [A] of Holder FL Cassette Ass'y ❶ is taken out from the Rail [B].
3) Lift the Holder FL Cassette Ass'y ❶, in this time, you have to grasp the Lever FL Cassette-R ❷ Continuously until the Holder FL Cassette Ass'y ❶ is taken out completely.

Note : Be sure to insert Lever FL Cassette-R ❷ in the direction of “A” to prevent separation and breakage of the Lever FL Cassette-R ❷ at disassembling and reassembling.

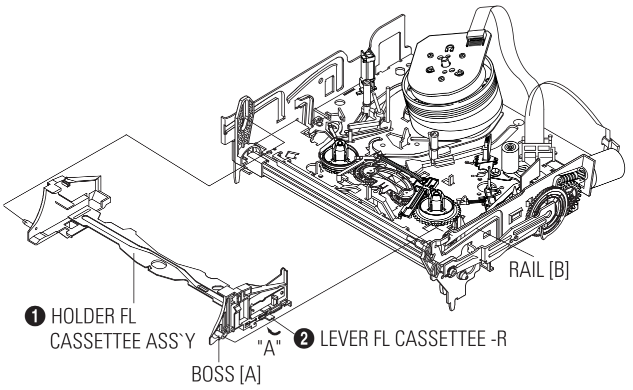


Fig. 1-4 Holder FL Cassette Ass’y Removal

1-2-2 Lever FL Door Removal

1) Release the Hook ❷ and Remove the Lever FL Door ❶ in the direction of arrow “C”.

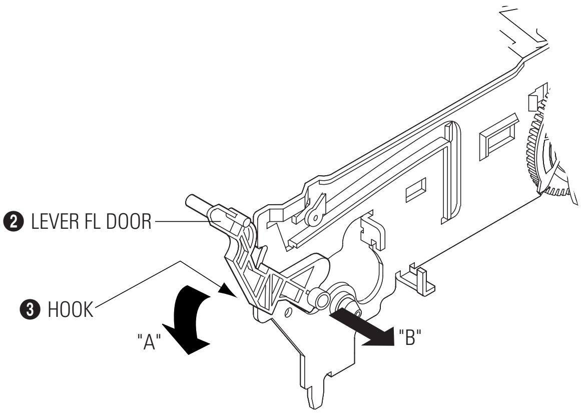


Fig. 1-5 Lever FL Door Removal

1-2-3 Slider FL Drive, Gear FL Cam Removal

1) Pull the Slider FL Drive ❶ to the front direction.
2) Remove the Slider FL Drive ❶ in the direction of arrow. (Refer to Fig. 1-6)
3) Remove the Gear FL cam ❷.

Note : When reinstalling be sure to reassemble Slider FL drive ❶ after you insert the Boss of Lever FL ARM-R in Groove of Slider Fl drive ❶.

Assembly : Align the Gear FL Cam ❶ with the Gear worm wheel Post as shown drawing.
(Refer to Timing point)

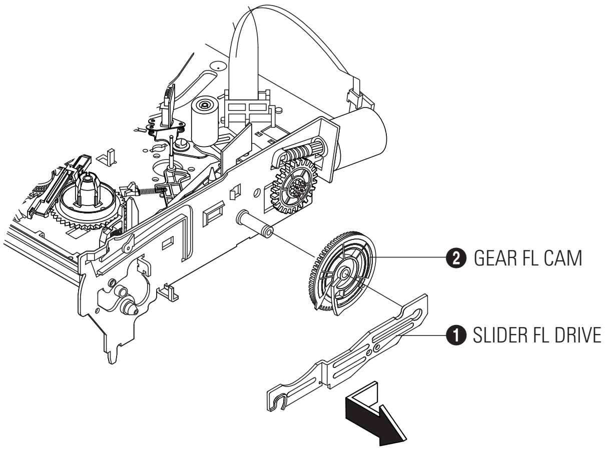

❷ GEAR FL CAM
❶ SLIDER FL DRIVE

Fig. 1-6 Slider FL Drive Removal

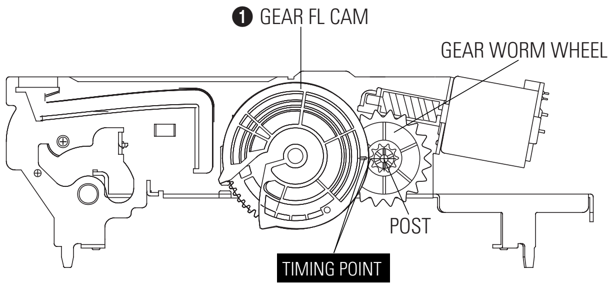

❶ GEAR FL CAM
GEAR WORM WHEEL
POST
TIMING POINT

Fig. 1-7 Gear FL Cam, Gear Worm

1-2-4 Lever FL Arm Ass'y Removal

1) Push the hole "A" in the direction of arrow "B" use the pin.(about Dia. 2.5)
2) Pull out the Lever FL Arm Ass'y ❶ from the Boss of Main Base.
3) Remove the Lever FL Arm Ass'y ❶ in the direction of arrow "C".

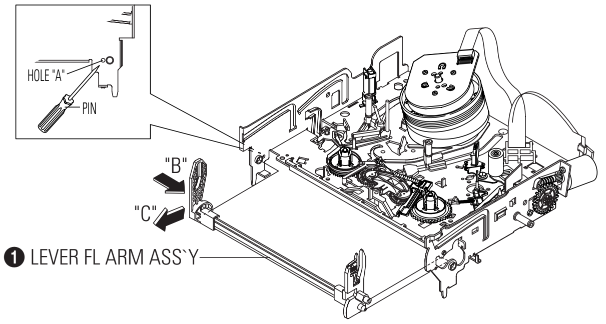

HOLE "A"
PIN
"B"
"C"
❶ LEVER FL ARM ASS`Y

Fig. 1-8 Lever FL Arm Ass'y Removal

1-2-5 Gear Worm Wheel Removal

1) Remove the Gear Worm wheel ❶.

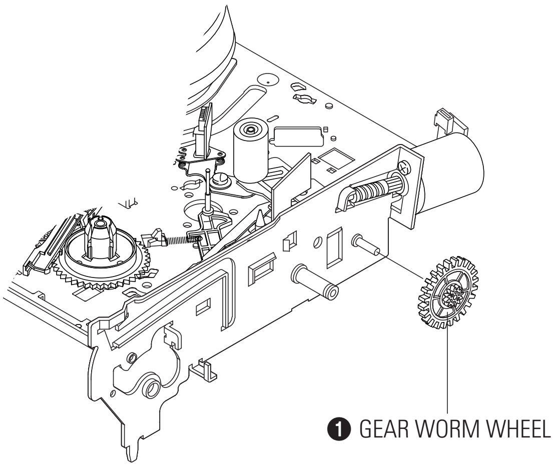

❶ GEAR WORM WHEEL

Fig. 1-9 Gear Worm Wheel Removal

1-2-6 Cable Flat Removal

1) Remove the Drum connecting part of Cable Flat ❶ from Connector Waffer ❷.
2) Remove the Loading Motor connecting part of Cable Flat ❶ from Connector Waffer ❸.
3) Rotate the Damper Capstan ❹ in the direction of arrow "A" and remove it toward "B".
4) Pull the Cable Flat ❶ in the direction of arrow "C" to remove.

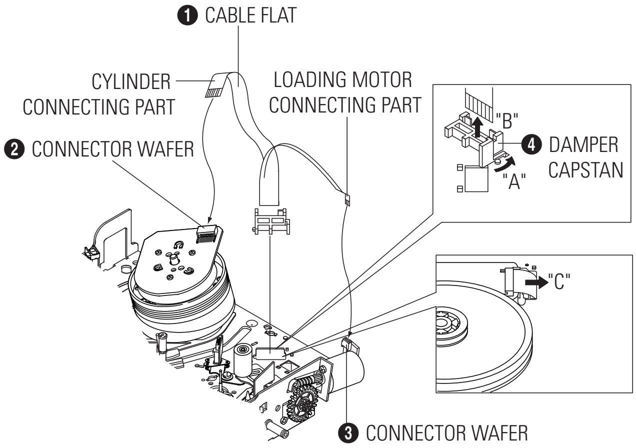

❶ CABLE FLAT
CYLINDER CONNECTING PART
LOADING MOTOR CONNECTING PART
❷ CONNECTOR WAFER
"B"
❹ DAMPER CAPSTAN
"A"
"C"
❸ CONNECTOR WAFER

Fig. 1-10 Cable Flat Removal

1-2-7 Motor Loading Ass'y Removal

1) Remove the screw ❶.
2) Remove the Motor Loading Ass'y ❷.

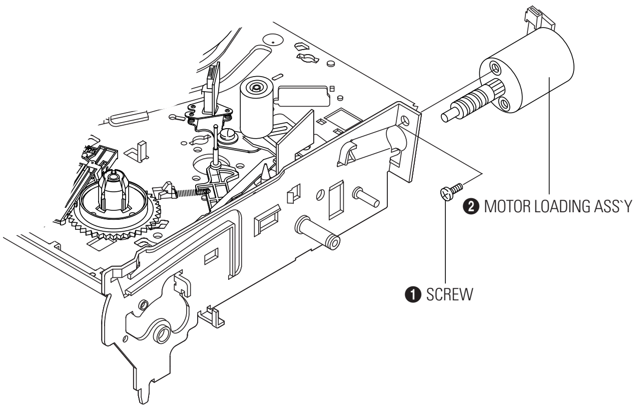

❷ MOTOR LOADING ASS'Y
❶ SCREW

Fig. 1-11 Motor Loading Ass'y Removal

1-2-8 Bracket Gear, Gear Joint 2, 1 Removal

1) Remove the SCREW ❶.
2) Remove the Bracket Gear ❷.
3) Remove the Gear Joint 2 ❸.
4) Remove the Gear Joint 1 ❹.

Assembly :
1) Be sure to align dot mark of Gear Joint 1 ❶ with dot mark of Gear Joint 2 ❷ as shown Fig 1-13. (Refer to Timing point1)
2) Confirm the Timing Point 2 of the Gear Joint 2 ❷ and Slider Cam ❸.

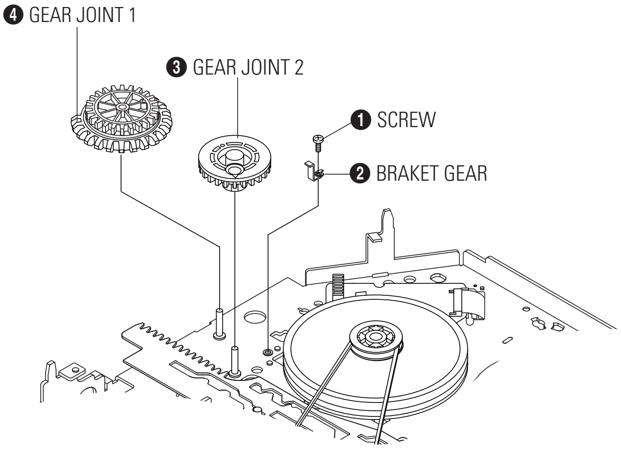

❹ GEAR JOINT 1
❸ GEAR JOINT 2
❶ SCREW
❷ BRAKET GEAR

Fig. 1-12 Bracket Gear, Gear Joint 1,2 Removal

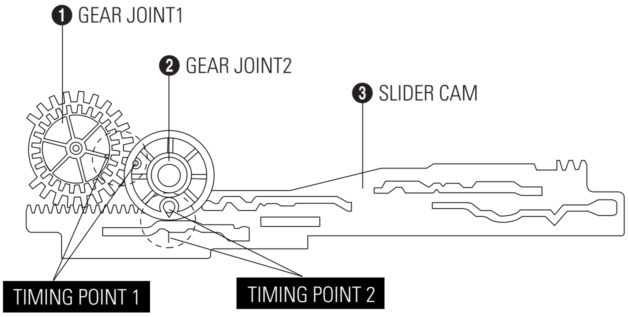

❶ GEAR JOINT1
❷ GEAR JOINT2
❸ SLIDER CAM
TIMING POINT 1
TIMING POINT 2

Fig. 1-13 Gear Joint 1,2 Assembly

1-2-9 Gear Loading Drive, Slider Cam, Lever Load S, T Ass’y Removal

1) Remove the Belt Pulley. (Refer to Fig. 1-31)
2) Remove the Gear Loading Drive ❶ after releasing Hook [A] in the direction arrow as shown in detail drawing.
3) Remove the Slider Cam ❷.
4) Remove the Lever Load ❸, Link Load ❺ & Lever Load ❹, Link Load ❻.

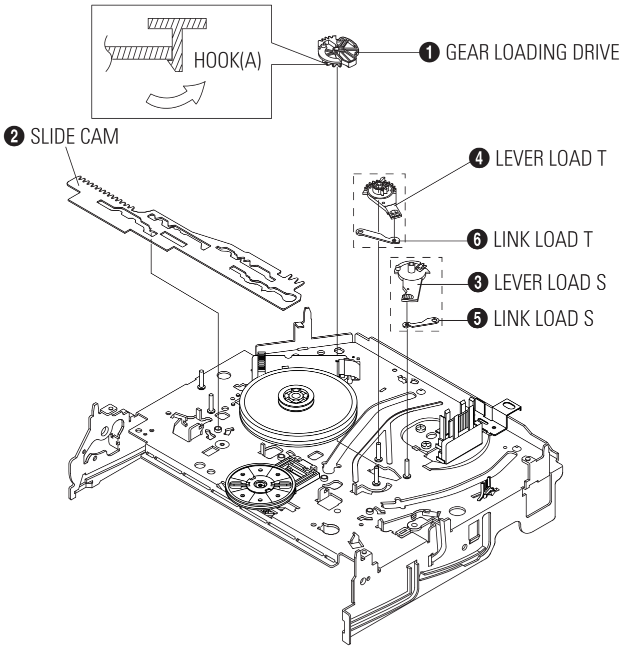

HOOK(A)
❶ GEAR LOADING DRIVE
❷ SLIDE CAM
❹ LEVER LOAD T
❻ LINK LOAD T
❸ LEVER LOAD S
❺ LINK LOAD S

Fig. 1-14 Gear Loading Drive, Slider Cam, Lever T, S Load Ass’y Removal

1-2-10 Gear Loading Drive, Slider Cam, Lever Load S, T Ass’y Assembly

1) When reinstalling, be sure to align dot of Lever Load T Ass'y ❶ with dot of Lever Load S Ass'y ❷ as shown in drawing, (Refer to Timing Point 1).
2) Insert the Pin A,B,C,D into the Slider Cam ❸ hole,
3) Be sure to align dot of Lever Load T ❶ and dot of Gear Loading Drive ❹, (Refer to Timing Point 2).
4) Aline dot of Gear Loading drive ❹ with mark of Slider Cam ❸ as shown in drawing(Refer to Timing Point 3).

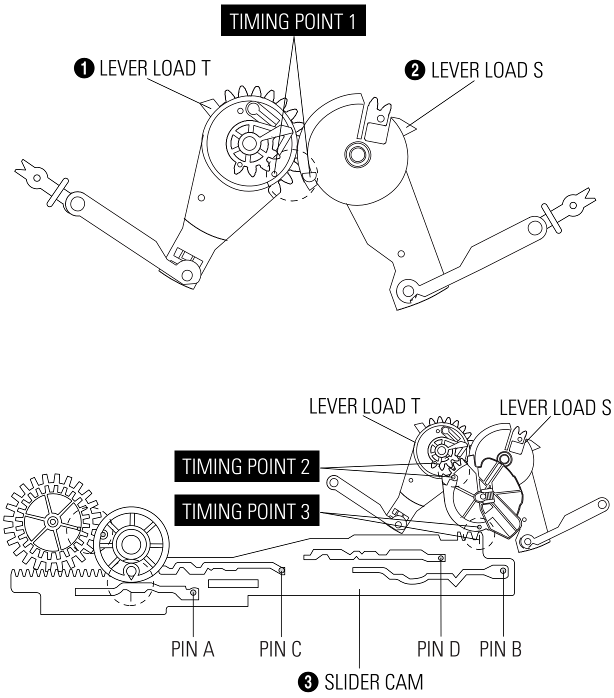

TIMING POINT 1
❶ LEVER LOAD T
❷ LEVER LOAD S
LEVER LOAD T
LEVER LOAD S
TIMING POINT 2
TIMING POINT 3
PIN A
PIN C
PIN D
PIN B
❸ SLIDER CAM

Fig. 1-15 Gear Loading Drive, Slider Cam, Lever Load S, T Ass’y Assembly

1-2-11 Lever Pinch Drive, Lever Tension Drive Removal

1) Remove the Lever Pinch Drive ❶, Lever Tension Drive ❷.

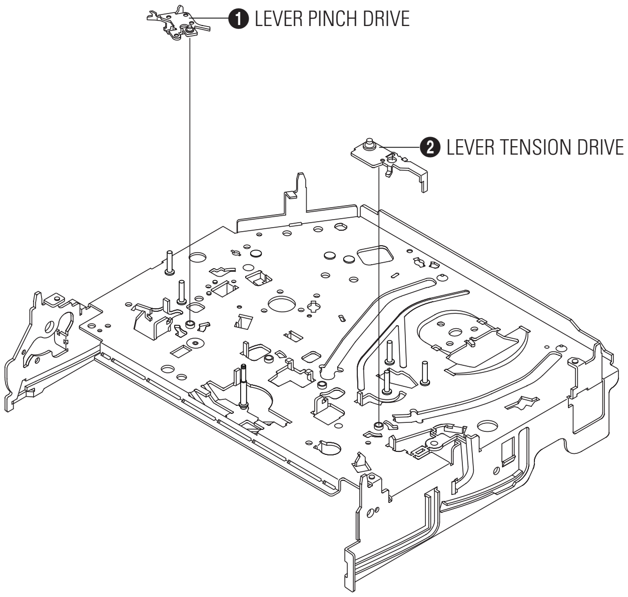

❶ LEVER PINCH DRIVE
❷ LEVER TENSION DRIVE

Fig. 1-16 Lever Pinch Drive,
Lever Tension Drive Removal

1-2-12 Lever Tension Ass’y, Band Brake Ass’y Removal

1) Remove the Lever Brake S Ass'y (Refer to Fig 1-18).
2) Remove the Spring Tension Lever ❶.
3) Rotate stopper of Main Base in the direction of arrow “A”.
4) Lift the Lever Tension Ass'y ❷ & Band brake Ass'y ❸.

Note :
1) When replacing the Lever Tension Ass'y ❷, be sure to apply Grease on the post,
2) Take care not to touch stain on the felt side, and not to be folder and broken Band brake Ass'y
3) After Lever Tension Ass'y seated, Rotate stopper of Main Base to the Mark[B].

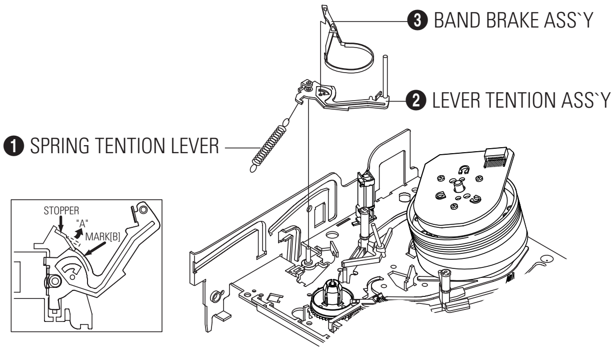

❸ BAND BRAKE ASS`Y
❷ LEVER TENTION ASS`Y
❶ SPRING TENTION LEVER
STOPPER
"A"
MARK[B]

Fig. 1-17 Lever Tension Ass’y,
Band Brake Ass’y Removal

1-2-13 Lever Brake S, T Ass’y Removal

1) Release the Hook [A] and the Hook [B], [C] in the direction of arrow as shown in Fig 1-18.
2) Lift the Lever S, T Brake Ass'y ❶, ❷ with spring brake ❸.

Assembly :
1)Assembly the Lever S Brake Ass'y ❶ on the Main Base.
2)Assembly the Lever T Brake Ass'y ❷ with spring brake ❸.

Note : Take extreme care not to be folded and transformed Spring Brake at removing or reinstalling.

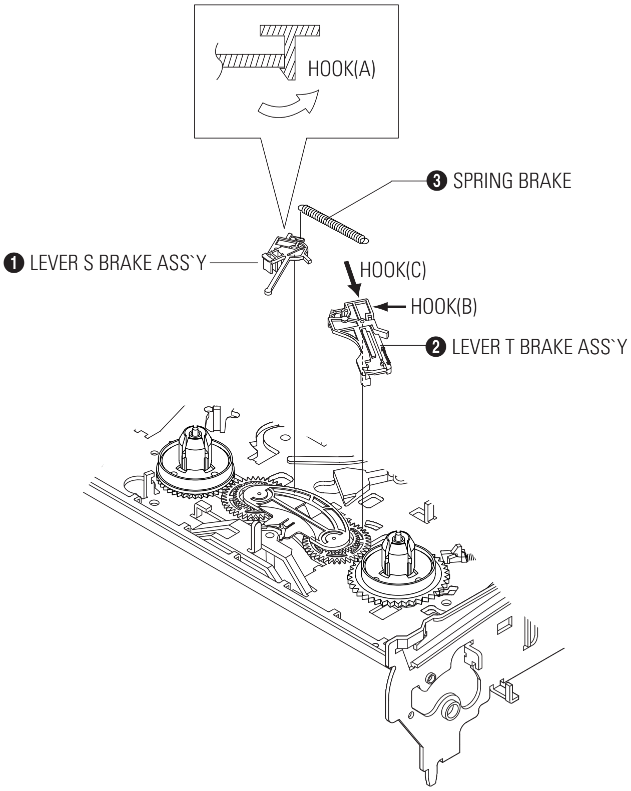

HOOK(A)
❸ SPRING BRAKE
❶ LEVER S BRAKE ASS`Y
HOOK(C)
HOOK(B)
❷ LEVER T BRAKE ASS`Y

Fig. 1-18 Lever Brake S, T Ass’y Removal

1-2-14 Gear Idle Ass’y Removal

1) Push the Lever Idle ❶ in the direction of arrow “A”, “B”.
2) Lift the Lever Idle ❶.

Assembly :
1) Apply oil in two Bosses of Lever Idle ❶.
2) Assemble the Gear Idle ❷ with the Lever Idle ❶.

Note : When replacing the Gear Idle ❷, be sure to add oil in the boss of Lever Idle ❶.

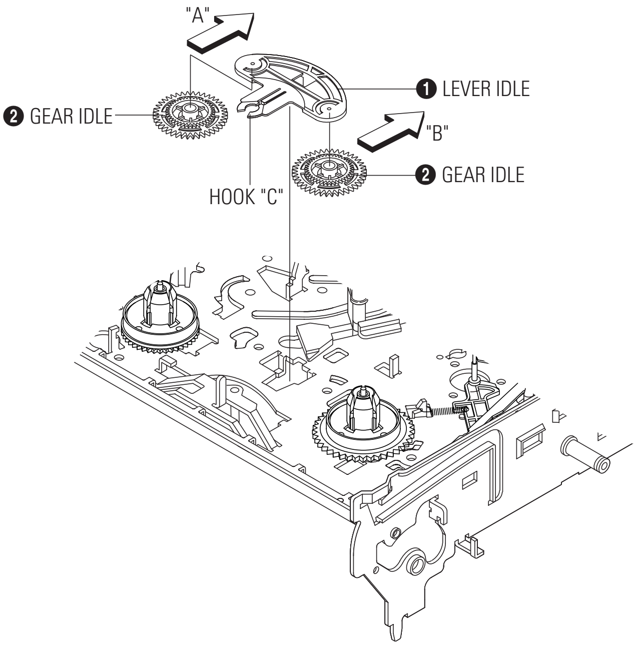

"A"
❶ LEVER IDLE
❷ GEAR IDLE
"B"
❷ GEAR IDLE
HOOK "C"

Fig. 1-19 Gear Idle Ass’y Removal

1-2-15 Disk S, T Reel Removal

1) Lift the Disk S, T Reel ❶, ❷.

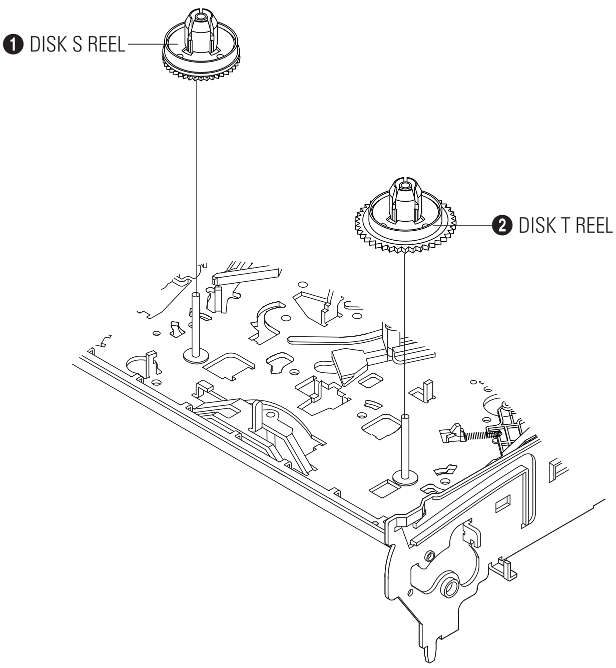

❶ DISK S REEL
❷ DISK T REEL

Fig. 1-20 Disk S, T Reel Removal

1-2-16 Holder Clutch Ass’y Removal

1) Remove the Washer Slit ❶.
2) Lift the Holder Clutch Ass’y ❷.

Note : When you reinstall Holder Clutch Ass'y
1) Check the condition of spring as shown in detail A.
2) Don't push Holder Clutch Ass'y down with excessive force Just insert Holder Clutch Ass'y into post center with dead force and Rotate it smoothly.
Be sure to confirm that spring is in the slit of Gear Center Ass'y as shown in detail B.

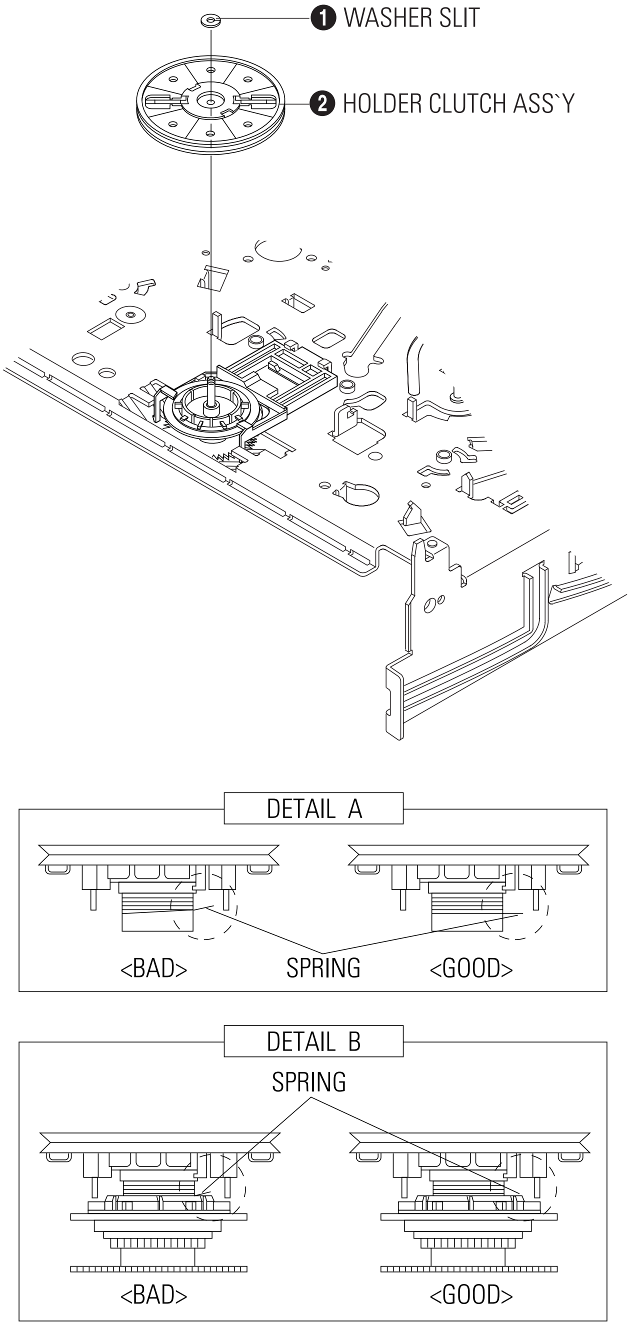

❶ WASHER SLIT
❷ HOLDER CLUTCH ASS`Y
DETAIL A
<BAD>
SPRING
<GOOD>
DETAIL B
SPRING
<BAD>
<GOOD>

Fig. 1-21 Holder Clutch Ass’y Removal

1-2-17 Lever Up Down Ass’y, Gear Center Ass’y Removal

1) Remove the 2 hooks in the direction of arrow as shown Fig. 1-21 and lift the Lever Up Down Ass’y ❶.
2) Lift the Gear Center Ass’y ❷.

Assembly :
1) Insert the Lever Up Down Ass'y ❶ in the rectangular holes on Main Base as shown in Fig 1-23.
2) Lift the Lever Up Down Ass'y ❶ about 35°. (Refer to Fig 1-23)
3) Insert Ring of the Gear Center Ass'y ❷ in the Guide of the Lever Up Down Ass'y ❶.
4) Insert the Gear Center Ass'y ❷ in the post on Main Base.
5) Push down the Lever Up Down Ass'y ❶ for locking of the Hook.

Note :
1) Take care not to separate and sentence does not mark sense.
2) Be sure to confirm that Ring of the Gear Center Ass'y ❷ is in the Guide of the Lever Up Down Ass'y ❶ after finishing assembly of Lever Up Down Ass'y ❶ and Gear Center Ass'y ❷.

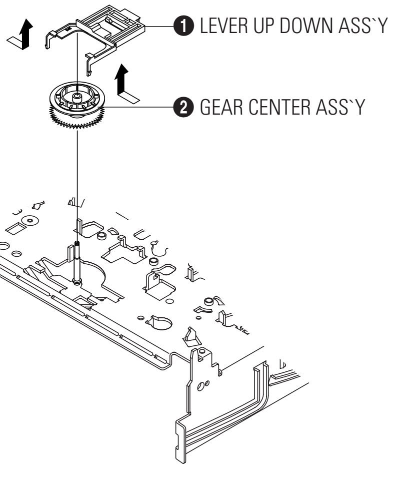

❶ LEVER UP DOWN ASS`Y
❷ GEAR CENTER ASS`Y

Fig. 1-22 Lever Up Down Ass’y Removal

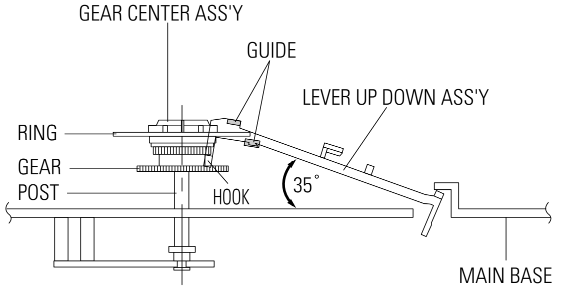

GEAR CENTER ASS'Y
GUIDE
LEVER UP DOWN ASS'Y
RING
GEAR
POST
HOOK
35°
MAIN BASE

Fig. 1-23 Lever Up Down Ass’y Removal

1-2-18 Guide Cassette Door Removal

1) Lift the Hook [A].
2) Rotate the Guide Cassette Door ❶ in the direction of arrow.

Note : After reinstalling the Guide Cassette Door ❶ sure the Hook [A].

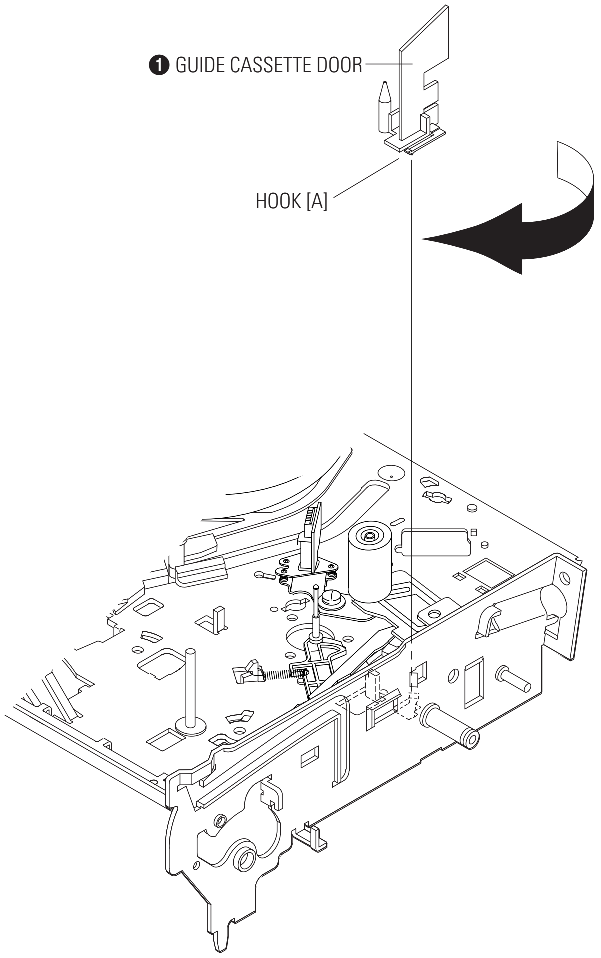

❶ GUIDE CASSETTE DOOR
HOOK [A]

Fig. 1-24 Guide Cassette Door Removal

1-2-19 Lever Unit Pinch Ass'y, Plate Joint, Spring Pinch Drive Removal

1) Lift the Unit Pinch Ass'y ❶.
2) Remove the Plate Joint ❷ from Lever Pinch Drive.
3) Remove the Spring Pinch Drive ❸.

Note :
1) Take extreme care not to touch the grease on the Roller Pinch.
2) When reinstalling, be sure to apply grease on the post pinch roller.

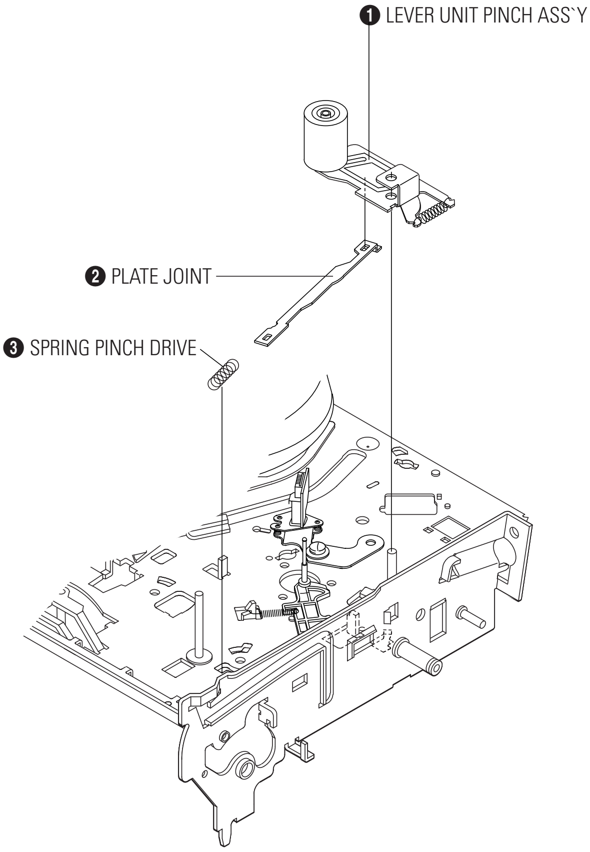

❶ LEVER UNIT PINCH ASS`Y
❷ PLATE JOINT
❸ SPRING PINCH DRIVE

Fig. 1-25 Lever Unit Pinch Ass'y, Plate Joint,
Spring Pinch Drive Removal

1-2-20 Lever #9 Guide Ass'y Removal

1) Remove the Spring #9 Guide ❶.
2) Lift the Spring #9 Guide Ass'y ❷ in the direction of arrow "A".

Note :
1) Take extreme care not to get grease on the tape Guide Post.
2) After reinstalling, check the bottom side of the Post #9 Guide to the top side of Main Base.

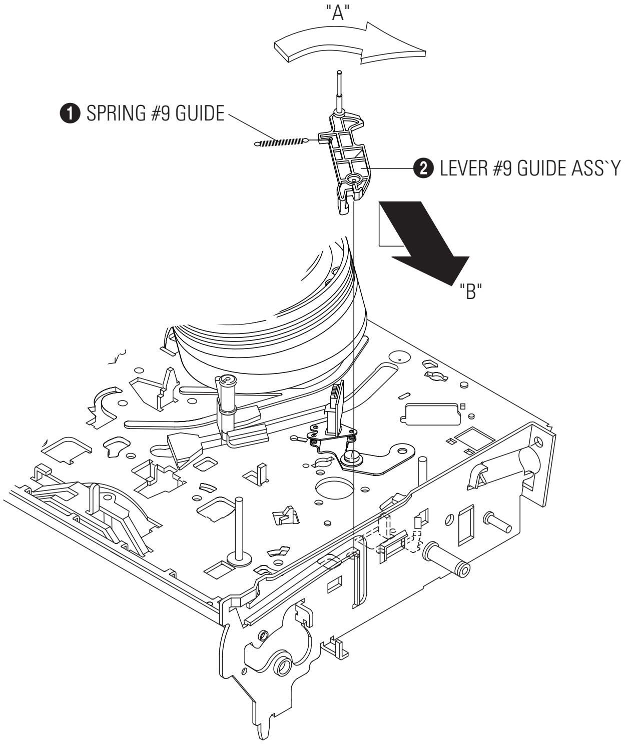

"A"
❶ SPRING #9 GUIDE
❷ LEVER #9 GUIDE ASS`Y
"B"

Fig. 1-26 Lever #9 Guide Ass'y Removal

1-2-21 FE Head Removal

1) Remove the screw ❶.
2) Lift the FE Head ❷.

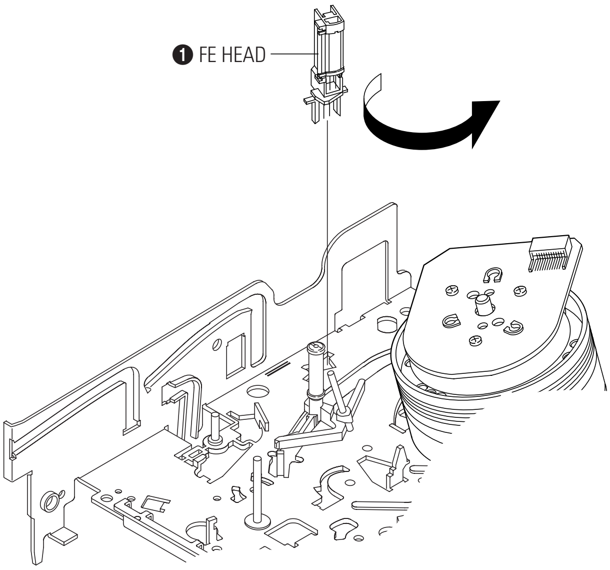


Fig. 1-27 FE Head Removal

1-2-22 ACE Head Removal

1) Pull out the FPC from connector of ACE Head Ass’y ❷.
2) Remove the screw ❶.
3) Lift the ACE Head Ass’y ❷.

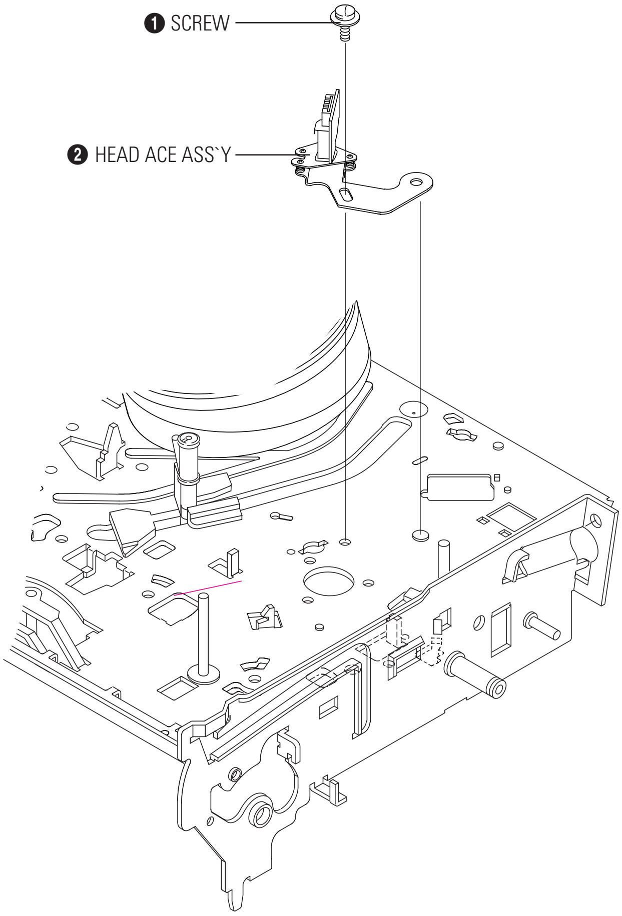


Fig. 1-28 ACE Head Removal

1-2-23 Slider S, T Ass’y Removal

1) Move the Slider S, T Ass’y ❶, ❷ to slot, and then lift it to remove. (Refer to arrow)

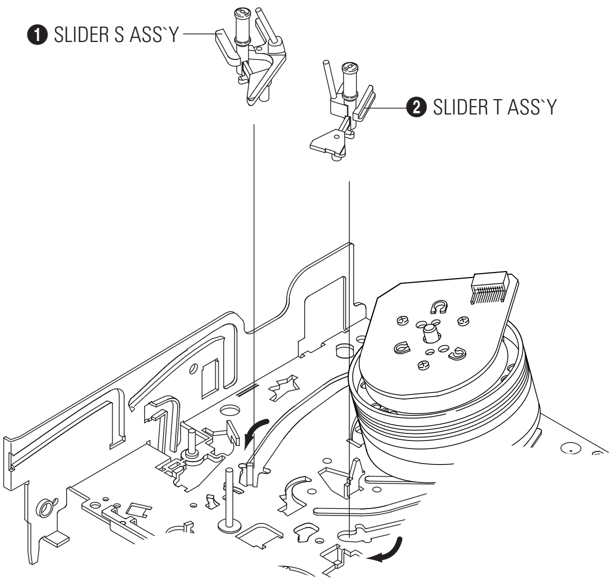


Fig. 1-29 Slider S, T Ass’y Removal

1-2-24 Plate Ground Deck, Cylinder Ass’y Removal

1) Remove the 3 Screws ❶.
2) Lift the Plate Ground Deck ❷.
3) Lift the Cylinder Ass’y ❸.

Assembly :

1) Match the 3 holes in the bottom of Cylinder ass'y ❸ to the 3 holes of Main Base as attending not to drop or knock the Cylinder ass'y ❸.
2) Tighten the 1 Screw ❶.
3) Match the Plate Ground Deck ❷ to the Hole of Base Main.
4) Tighten the other 2 Screws ❶.

Note :

1) Take care not to touch the Cylinder Ass'y ❸ and the tape guide post at reinstalling.
2) When reinstalling, Don't push down too much on Screw Driver.

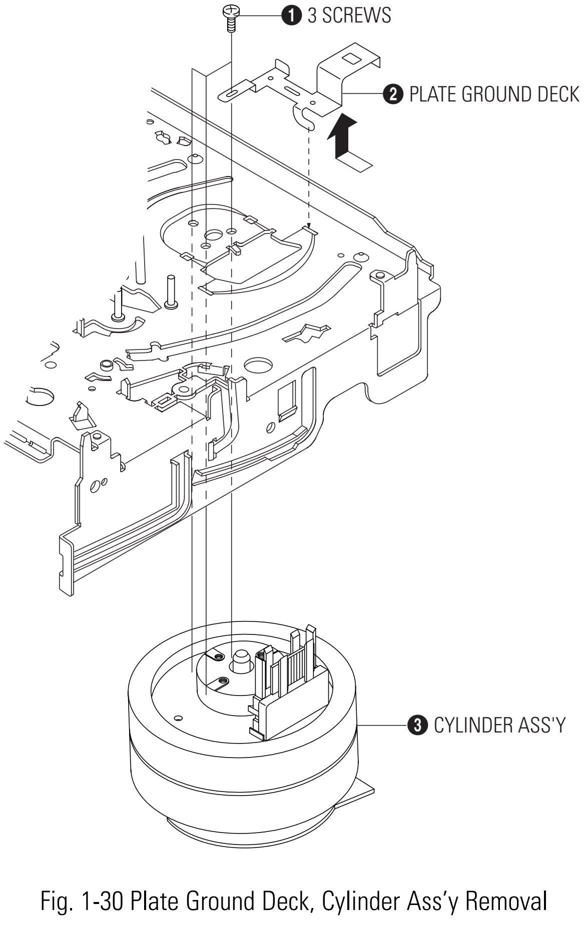


Fig. 1-30 Plate Ground Deck, Cylinder Ass’y Removal

1-2-25 Belt Pulley Removal

1) Remove the Belt Pulley ❶.

Note : Take extreme care not to get grease on Belt Pulley ❶ at assembling or reassembling.

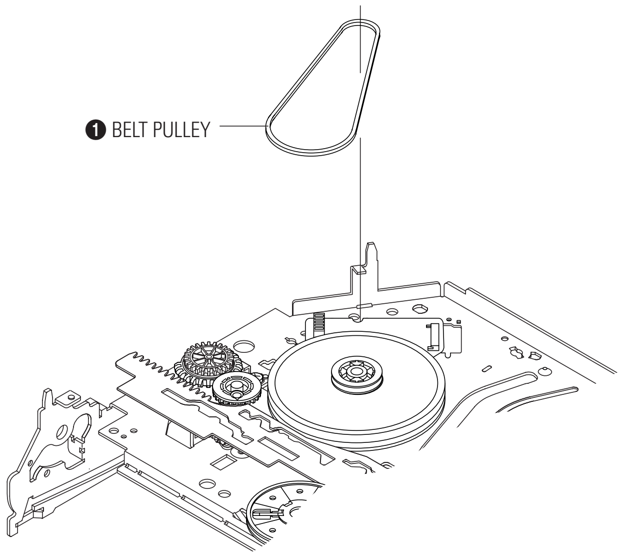


Fig. 1-31 Belt Pulley Removal

1-2-26 Damper Capstan, Motor Capstan Ass'y Removal

1) Remove the Damper Capstan ❶ in the direction of arrow.
2) Remove the 3 Screws ❷.
3) Remove the Motor Capstan Ass'y ❸.

Assembly :
1) Match the 3 holes of Motor Capstan Ass'y ❸ to the 3 holes of Main Base. Be careful not to drop or knock the Motor Capstan Ass'y ❸.
2) Tighten the 3 Screws ❷ in the direction of arrow as shown detail drawing.
3) Assemble the Damper Capstan ❶.

Note : After tightening screws, check if there is gap between the head of screws and the top side of Main Base. There should have no gap between the head of screws and the top side of Main Base.
After reinstalling, adjusting the tape transport system again.

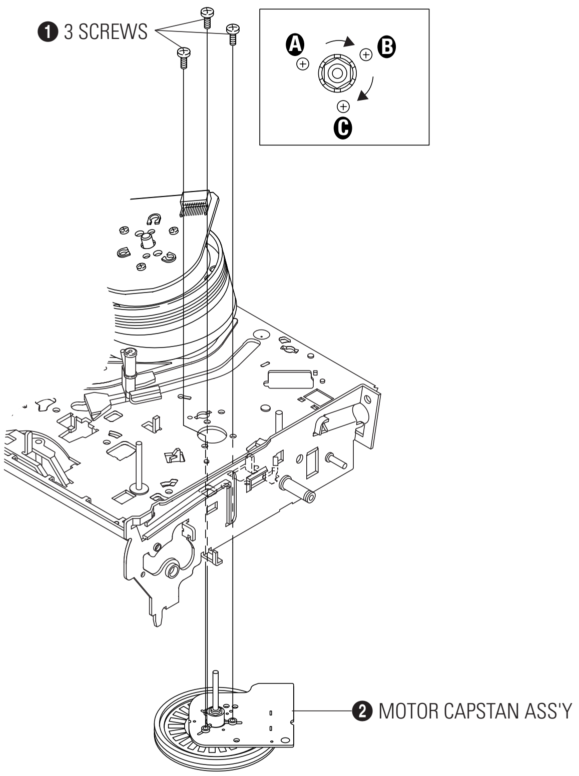


Fig. 1-32 Damper Capstan,Motor Capstan Ass'y Removal

1-2-27 Post #8 Guide Ass’y Removal

1) Rotate the Post #8 Guide Ass’y ❶ in the direction of arrow to lift up.

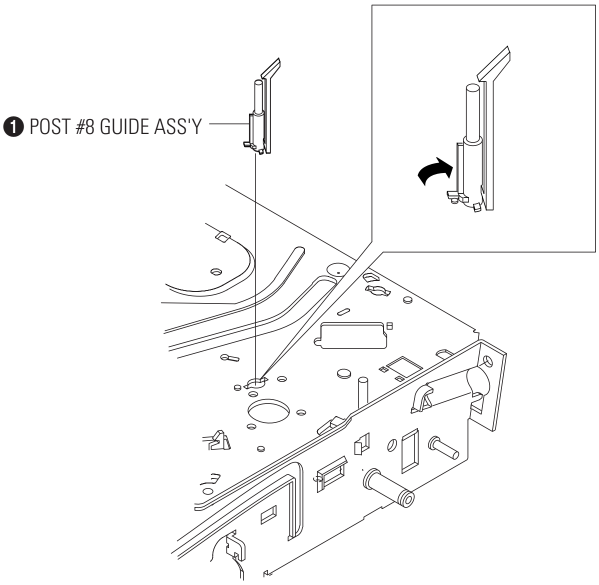


Fig. 1-33 Post #8 Guide Ass’y Removal

1-2-28 Level Head Cleaner Ass’y Removal (Optional)

1) Release the Hook ❶.
2) Lift the Lever Head Cleaner Ass’y ❷.

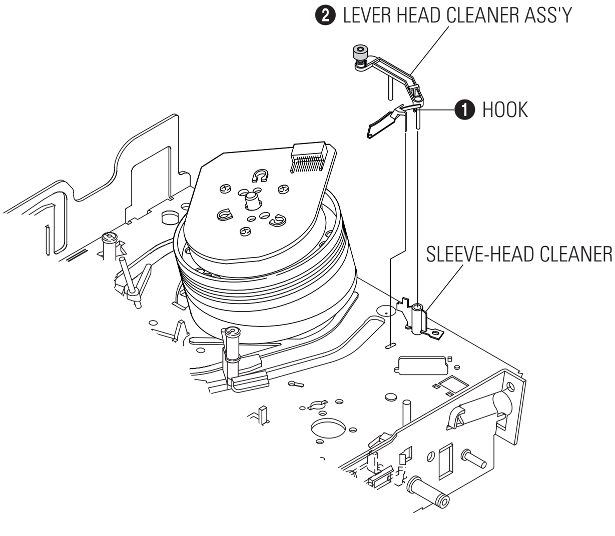


Fig. 1-34 Post #8 Guide Ass’y Removal

1-2-29 How to Eject the Cassette Tape (If the unit does not operate on condition that is inserted into housing ass’y)

1) Turn the Gear worm ❶ clockwise with screw driver.(Refer to arrow)
   (Other method : Remove the Screw of Motor Load Ass'y, Separate the Motor Load Ass'y)

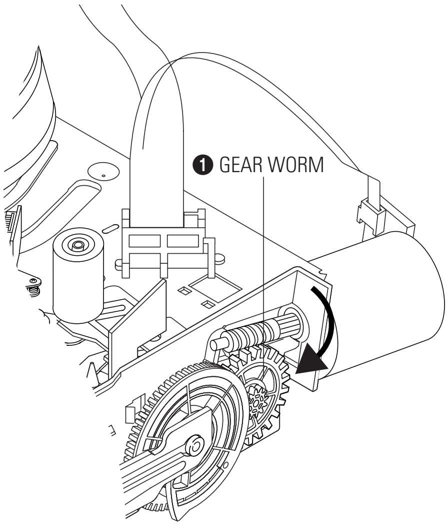


Fig. 1-35

2) When Slider S,T are approched in the position of unloading, rotate holder Clutch counterclockwise after inserting screw driver in the hole of frame's bottom in order to wind the unwinded tape. (Refer to Fig.1-36)
   (If you rotate Gear Worm ❶ continuously when tape is in state of unwinding, you may cause a tape contamination by grease and tape damage. Be sure to wind the unwinded tape in the state of set horizently.)
3) Rotate Gear Worm ❶ clockwise using screw driver again up to the state of eject mode and then pick out the tape.(Refer to Fig.1-35)

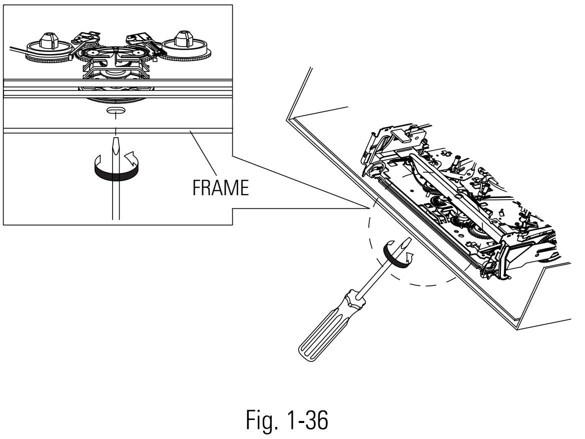


Fig. 1-36

1-3 The table of clearing, Lubrication and replacement time about principal parts

1) The replacement time of parts is not life of parts.
2) The table 1-1 is that the VCR Set is in normal condition (normal temperature, normal humidity).
   The checking period may be changed owing to the condition of use, runtime and environmental conditions.
3) Life of the Cylinder Ass'y is depend on the condition of use.
4) See exploded view for location of each parts.

<Table 1-1>

*	Parts Name	Checking Period										Remark
		500	1000	1500	2000	2500	3000	3500	4000	4500	5000	
TAPE PATH SYSTEM	POST TENSION	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	- To clean the parts, use patch and alcohol (solvent). - After cleaning, use the video tape after alcohol is gone away completely. - We recommend to use oil [EP-50] or solvent. - One or two drops of oil should be applied after cleaning with alcohol.
	SLANT POST S, T	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	
	#8 GUIDE SHAFT	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	
	CAPSTAN SHAFT	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	
	#9 GUIDE POST	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	
	#3 GUIDE POST	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	
	GUIDE ROLLER S, T	Δ	Δ	Δ	0	0	0	0	0	0	0	
	CYLINDER ASS'Y	Δ	0	0	0	0	0	0	0	0	0	
	FE HEAD	Δ	Δ	Δ	0	0	0	0	0	0	0	
	ACE HEAD	Δ	0	0	0	0	0	0	0	0	0	
	PINCH ROLLER	Δ	0	0	0	0	0	0	0	0	0	
	POST REEL S, T		◆		◆		◆		◆		◆	- Periodic time of applying oil (Apply oil after cleaning) - The excessive applying oil may be the cause of malfunction.
	SLEEVE TENSION		◆		◆		◆		◆		◆	
	POST CENTER		◆		◆		◆		◆		◆	
	LEVER IDLE BOSS (2Point)		◆		◆		◆		◆		◆	
DRIVING SYSTEM	CAPSTAN MOTOR PULLEY	Δ	Δ	Δ	Δ	Δ	0	0	0	0	0	
	BELT PULLEY				0	0	0	0	0	0	0	
	HOLDER CLUTCH ASS'Y	Δ	0	0	0	0	0	0	0	0	0	
	GEAR CENTER ASS'Y		0	0	0	0	0	0	0	0	0	
	GEAR IDLE (2Point)		0	0	0	0	0	0	0	0	0	
	LOADING MOTOR		0	0	0	0	0	0	0	0	0	
BRAKE SYSTEM	BAND BRAKE ASS'Y		0	0	0	0	0	0	0	0	0	
	BRAKE T ASS'Y		0	0	0	0	0	0	0	0	0	

Δ : Cleaning O : Check and replacement in necessary ◆ : Add Oil

2. Alignment and Adjustment

2-1 Tape Transport System and Adjustment Locations

The tape transport system has been adjusted precisely in the factory. Alignment is not necessary except for the following :

1) Noise observed on the screen.
2) Tape damage.
3) Parts replacement in the tape transport system.

Lower flange height of tape guide is used as the reference for the transport adjustment.
To maintain the height of the tape guide and prevent damage, do not apply excessive force onto the main base.

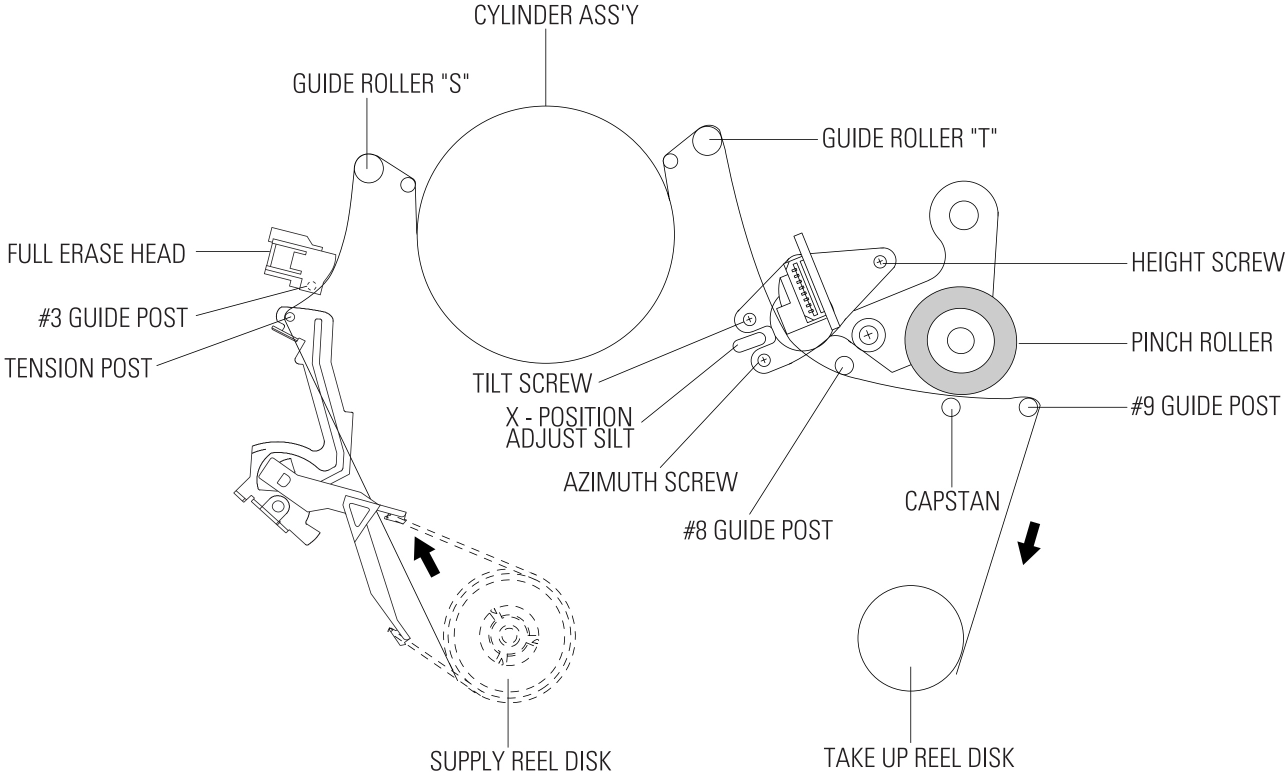

CYLINDER ASS'Y
GUIDE ROLLER "S"
GUIDE ROLLER "T"
FULL ERASE HEAD
HEIGHT SCREW
#3 GUIDE POST
PINCH ROLLER
TENSION POST
TILT SCREW
#9 GUIDE POST
X - POSITION ADJUST SILT
AZIMUTH SCREW
CAPSTAN
#8 GUIDE POST
SUPPLY REEL DISK
TAKE UP REEL DISK

Fig. 2-1 Location of Tape Transport Adjustment

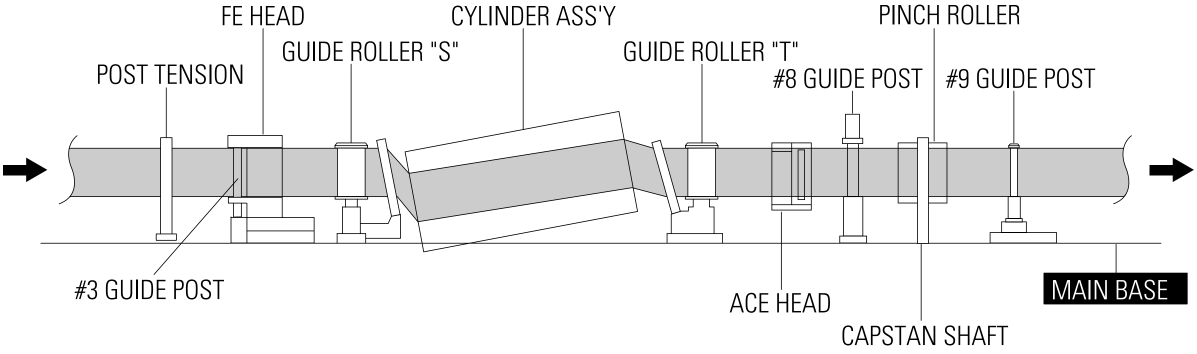

FE HEAD
CYLINDER ASS'Y
PINCH ROLLER
GUIDE ROLLER "S"
GUIDE ROLLER "T"
POST TENSION
#8 GUIDE POST
#9 GUIDE POST
#3 GUIDE POST
ACE HEAD
MAIN BASE
CAPSTAN SHAFT

Fig. 2-2 Tape Travel Diagram

2-2 Tape Transport System Adjustment

When parts are replaced, perform the required adjustments by referring to procedures for the tape transport system. If there are any changes to the tape path, first run a T-120 tape and make sure excessive tape wrinkle does not occur at the tape guides.

1) If tape wrinkle is observed at the guide roller S, T, turn the guide roller S, T until wrinkle disappears.
2) If the tape wrinkle is still observed at the tape guide, perform the tilt adjustment of the ACE head. (See "2. Alignment and Adjustment" of the Service Manual for Test Point Locations.)

2-2-1 ACE Head Assembly Adjustment

2-2-1(a) ACE HEAD HEIGHT ADJUSTMENT

1) Run the alignment tape (Color bar) in the playback mode.
2) Observe surface of the audio head using a dental mirror.
3) Turn screw (C) clockwise or counterclockwise until the gap of lower tape edge and the lower edge of the control head is about 0.25mm. (Refer to Fig. 2-3 and 2-4)

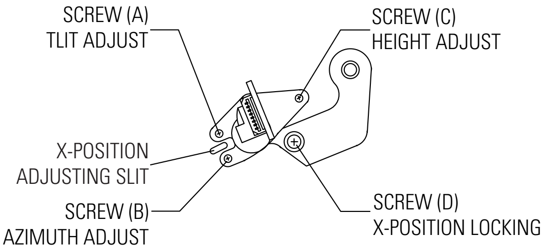


Fig. 2-3 Location of ACE Head Adjustment Screw

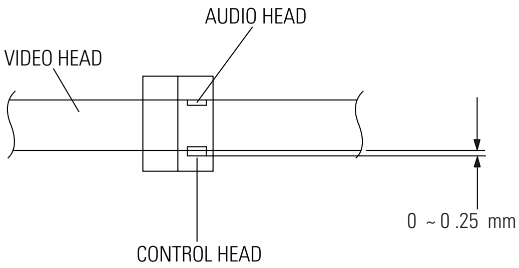


Fig. 2-4 ACE Head Height Adjustment

2-2-1(b) ACE HEAD TILT ADJUSTMENT

1) Playback a blank tape and observe the position of the tape at the lower flange of tape guide.
2) Confirm that there is no curl or wrinkle at the lower flange of tape guide as shown in Fig. 2-5 (B).
3) If a curl or wrinkle of the tape occurs, slightly turn the screw (A) tilt adjust on the ACE head ass'y.
4) Reconfirm the ACE head height.

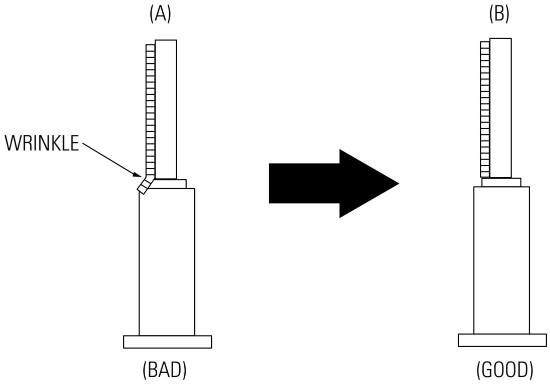


Fig. 2-5 Tape Guide Check

2-2-1(c) AUDIO AZIMUTH ADJUSTMENT

1) Load alignment tape (Mono scope) and playback the NTSC : 7KHz (PAL : 6KHz) signal.
2) Connect channel-1 scope probe to audio output test point.
3) Adjust screw (B) to achieve maximum audio level. (See Fig. 2-3)

2-2-1(d) ACE HEAD POSITION (X-POINT) ADJUSTMENT

1) See "2. Alignment and Adjustment" for ACE Head position (X-Point) adjustment.

2-2-2 Linearity adjustment (Guide roller S, T adjustment)

1) Playback the Mono Scope alignment tape (SP mode).
2) Observe the video envelope signal on an oscilloscope (triggered by the video switching pulse).
3) Make sure the video envelope waveform (at its minimum) meets the specification shown in Fig. 2-6.
   If it does not, adjust as follows :

Note :

a=Maximum output of the video RF envelope.

b=Minimum output of the video RF envelope at the entrance side.

c=Minimum output of the video RF envelope at the center point.

d=Maximum output of the video RF envelope at the exit side.

4) If the section A in Fig. 2-7 does not meet the specification, adjust the guide roller S up or down.
5) If the section B in Fig. 2-7 does not meet the specification, adjust the guide roller T up or down.

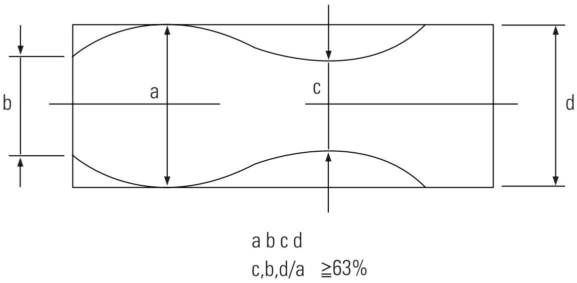

b
a
c
d
a b c d
c,b,d/a ≥63%

Fig. 2-6 Envelope Waveform Adjustment

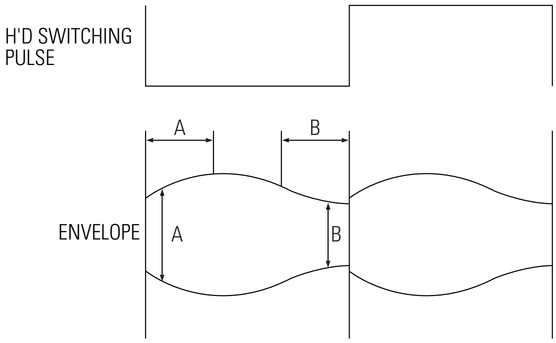

H'D SWITCHING PULSE
A
B
ENVELOPE
A
B

Fig. 2-7 Adjustment Points

6) Play back the Mono Scope alignment tape (SP mode).
7) Connect an oscilloscope CH-1 to the Envelope and CH-2 to the H'D SW Pulse for triggering.
8) Turn the guide roller heads with a flat head (▬) driver to obtain a flat video RF envelope as shown in Fig. 2-8.

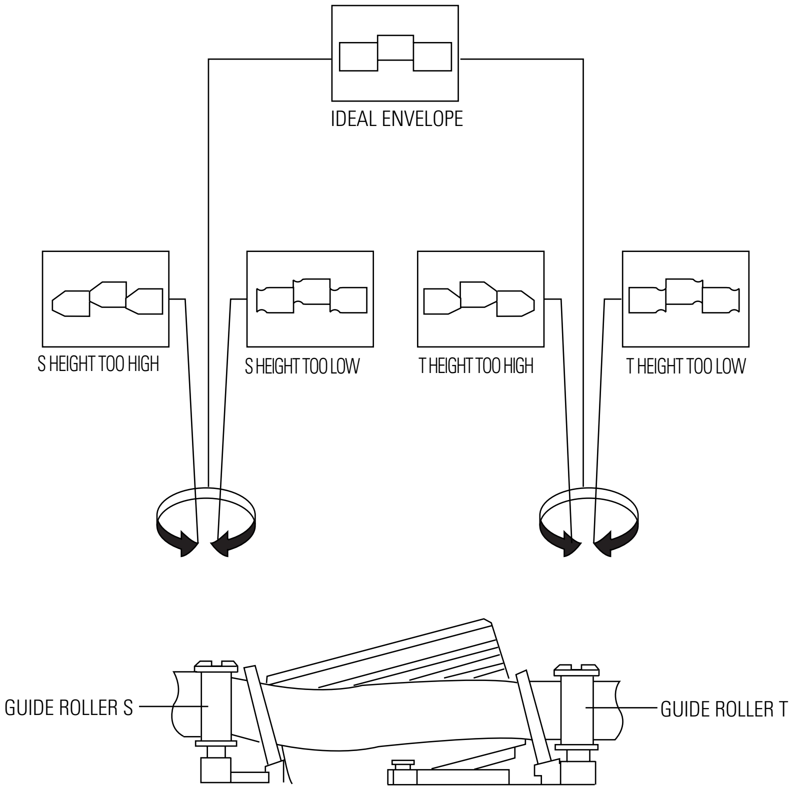

IDEAL ENVELOPE
S HEIGHT TOO HIGH
S HEIGHT TOO LOW
T HEIGHT TOO HIGH
T HEIGHT TOO LOW
GUIDE ROLLER S
GUIDE ROLLER T

Fig. 2-8 Guide Roller S, T Height Adjustment

2-2-3 Check Transitional Operation from RPS to Play

Check transition from RPS mode to play mode :
Using a pre-recorded SP tape, make sure the entry side of envelope comes to an appropriate steady state within 3 seconds (as shown in Fig. 2-9).
If the envelope waveform does not reach specified peak-to peak amplitude within 3 seconds, adjust as follows :

1) Make sure there is no gap between the supply roller lower flange and the tape.
   If there is a gap, adjust the supply guide roller again.
2) Change operation mode from the RPS to the play mode (again) and make sure the entry side of envelope rises within 3 second.

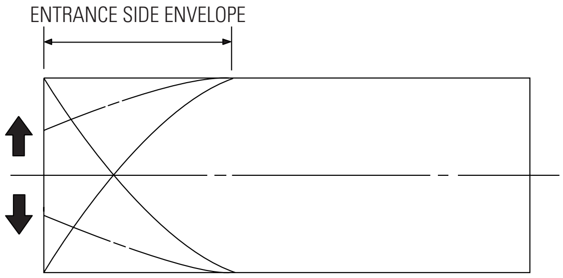


Fig. 2-9 Video Envelope Rising when Operation mode Changes from RPS to Play Mode

2-2-4 Envelope Check

1) Make recordings on T-120 (E-120) and T-160 (E-180) tape.
   Make sure the playback output envelope meets the specification as shown in Fig. 2-10.
2) Play back a self recorded tape (recording made on the unit using with T-120 (E-120).
   The video envelope should meet the specification as shown in Fig. 2-10.
   In SP mode, (A) should equal (B).
   If the head gap is wide, upper cylinder should be checked.

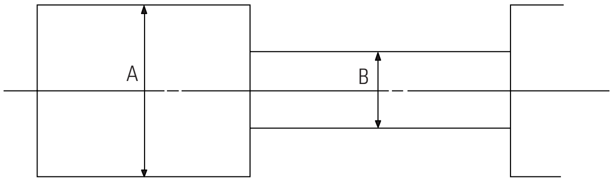


Fig. 2-10 Envelope Output and Output Level

2-2-5 Tape Wrinkle Check

1) Run the T-160 (E-180) tape in the playback, FPS, RPS and Pause modes and observe tape wrinkle at each guide.
2) If excessive tape wrinkle is observed, perform the following adjustments in Playback mode :

◆ Tape wrinkle at the guide roller S, T section :
Linearity adjustment.

◆ Tape wrinkle at tape guide flange :
ACE head assembly coarse adjustment.

2-3 Reel Torque

1) The rotation of the capstan motor causes the Holder Clutch Ass'y to rotate through the Belt Pulley.
2) The spring wrap PLAY/REV of holder clutch ass'y drives the disk reel S, T through gear idle by rotation of gear center ass'y.
3) Brake is operated by slider cam at FF/REW mode.
4) Transportation of accurate driving force is done by gears. (Gear Center Ass'y)

Note : If the spec. does not meet the followings specifications, replace the holder clutch ass'y and then recheck.

<Table 2-1>

MODE	TORQUE g/cm	GAUGE
PB	42 ± 11	Cassette Torquemeter
RPS	145 ± 30	Cassette Torquemeter